

# AGRICULTURAL STATISTICS, IRELAND.

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## GENERAL ABSTRACTS

SHOWING

THE ACREAGE UNDER THE SEVERAL CROPS,

AND THE

## NUMBER OF LIVE STOCK

IN

EACH COUNTY AND PROVINCE,

FOR THE YEAR

### 1875.

ALSO THE NUMBER OF SCUTCHING MILLS IN EACH PROVINCE IN 1874,  
AND THE EMIGRATION FROM IRISH PORTS FROM 1st JANUARY.  
TO 30th JUNE, IN 1874 AND 1875.

WITH AN

APPENDIX CONTAINING INFORMATION REGARDING THE  
EXTIRPATION OF WEEDS.

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*Presented to both Houses of Parliament by Command of Her Majesty.*

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DUBLIN :

PRINTED BY ALEXANDER THOM, 87 & 88, ABBEY-STREET,  
FOR HER MAJESTY'S STATIONERY OFFICE.

1875.

[C.—1324.] Price 2½d.

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# AGRICULTURAL STATISTICS, IRELAND, 1875.

TO HIS GRACE, JAMES, DUKE OF ABERCORN, K.G.,

&c., &c., &c.,

LORD LIEUTENANT-GENERAL AND GENERAL GOVERNOR OF IRELAND.

MAY IT PLEASE YOUR GRACE,

I had the honour of submitting, on the 30th ultimo, a Return by Counties of the acreage under Flax in the years 1874 and 1875, with the number of Scutching Mills in 1874. I now beg to submit the annual General Abstracts, which give, as usual, by Counties and Provinces, the entire area under each description of Crop; also the total number of Live Stock, and their estimated value.

The Emigration from Ireland, during the first six months of 1874 and 1875, is also given.

The collection of the Agricultural Statistics, which commenced on the 1st of June, occupied nearly two months. The Enumerators, of whom nearly 3,800 were employed, were selected from the Royal Irish Constabulary and Metropolitan Police, and, I need scarcely observe, discharged this duty with their usual efficiency. The various Holdings, which amount in all to about 600,000, were visited by them, and *the names of the several parties from whom the particulars of Tillage and Live Stock for each Holding were obtained, are stated on the Returns, with a view to further inquiry in any case, should it be found necessary.*

The information given to the Enumerators is altogether voluntary; and I feel assured it will afford pleasure to your Grace to learn, as, I beg to say, it is most gratifying to have it in my power to state, that so far as I am informed by the Officers who acted as Superintendents of Districts, the required Returns have been collected without difficulty, except in a few cases, in which, on a written application being made by me, the particulars were courteously supplied, one landed proprietor only, occupying about 400 acres in the province of Leinster, declining to permit his steward to furnish any information—this being the sole exception in all Ireland. The readiness with which these statistics are obtained is highly creditable to the good feeling and intelligence of all ranks and classes connected with land in this country, and affords an example well deserving of imitation in England.

The Abstracts have been carefully compiled from summaries made by the Enumerators, for their respective districts. They may differ in some degree from the revised figures which will be hereafter published; but I do not apprehend that any changes of importance will become necessary.

Success of  
the Enumera-  
tion.

Extent under Crops.	The total acreage under all Crops this year was . . . . .	5,331,655 acres
	The do. do. do. in 1874 . . . . .	5,269,004 "
	Showing an increase in the extent under Crops in 1875 of : . . . . .	62,651 "

The Crops which *increased* in extent this year are—

		Increase.	
		Acres.	Acres.
CEREALS,	Oats, . . . . .	18,474	41,290
	Barley, . . . . .	22,139	
	Bere and Rye, . . . . .	411	
	Beans and Pease, . . . . .	256	
	Potatoes, . . . . .	7,852	
GREEN CROPS,	Mangel and Beet Root, . . . . .	4,947	17,248
	Cabbage, . . . . .	1,690	
	Carrots, Parsnips, and other . . . . .	2,490	
	Green Crops, . . . . .	269	
	Vetches and Rape, . . . . .	37,244	
	Meadow and Clover, . . . . .		37,244
Total Increase on the foregoing Crops, . . . . .			95,772

The Crops which *decreased* in acreage in 1875 are—

	Acres.
Wheat, . . . . .	26,657
Turnips, . . . . .	805
Flax, . . . . .	5,659

Total Decrease in the foregoing Crops, . . . . . 33,121

Total Increase in the area under Crops, . . . . . 95,772

Making a Net Increase in the area under all Crops of 62,651 Acres.

It appears from the foregoing summaries that, compared with 1874, oats show an increase of 18,474 acres, barley of 22,139 acres, bere and rye of 411 acres, beans and pease of 256 acres, potatoes of 7,852 acres, mangel and beet root of 4,947 acres, cabbage of 1,690 acres, carrots, parsnips, and other green crops of 2,490 acres, vetches and rape of 269 acres, and meadow and clover 37,244 acres.

In wheat there is a decrease of 26,657 acres, turnips of 805 acres, and flax of 5,659 acres.

#### ABSTRACT OF CEREAL CROPS.

	1874.	1875.	Increase in 1875.	Decrease in 1875.
	Acres.	Acres.	Acres.	Acres.
WHEAT, . . . . .	187,978	161,321	—	26,657
OATS, . . . . .	1,480,897	1,499,371	18,474	—
BARLEY, . . . . .	211,608	233,747	22,139	—
BERE AND RYE, . . . . .	9,001	10,312	411	—
BEANS AND PEASE, . . . . .	11,391	11,647	256	—
TOTAL, . . . . .	1,901,775	1,916,398	14,623	—

Increase in Cereal Crops in 1875, . . . . . 14,623 Acres.

## ABSTRACT OF GREEN CROPS.

	1874.	1875.	Increase in 1875.	Decrease in 1875.
	Acres.	Acres.	Acres.	Acres.
POTATOES, . . . . .	892,423	900,277	7,852	—
TURNIPS, . . . . .	333,568	332,783	—	805
MANGEL WURZEL AND BEET ROOT, . . . . .	33,327	43,274	4,947	—
CABBAGE, . . . . .	33,184	34,874	1,690	—
CARROTS, PARSNIPS, AND OTHER GREEN CROPS, . . . . .	34,694	37,184	2,490	—
VETCHES AND RAPE, . . . . .	21,425	21,694	269	—
TOTAL, . . . . .	1,353,643	1,370,086	16,443	—

*Increase in Green Crops in 1875, . . . . . 16,443 Acres.*

## GENERAL SUMMARY OF CEREAL AND GREEN CROPS, &amp;c.

		Acres.	Acres.
Increase in Cereal Crops	in 1875, . . . . .	41,280	95,772
Do. Green Crops	in do. . . . .	17,248	
Do. Meadow and Clover	in do. . . . .	37,244	
Decrease in Wheat, Turnips, and Flax	in do. . . . .	—	33,121
Total Increase in the extent of Land under Crops in 1875, . . . . .			62,651

The total extent under Crops, Grass, Fallow, Woods and Plantations, and of Bog and Waste in 1874 and 1875, is given by Provinces in the following Table:—

Division  
of Land.

PROVINCES.	Extent under Crops.	Grass.	Fallow.	Woods and Plan- tations.	Bog and Waste.*	Total.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
LEINSTER, { 1874, 1,466,809	2,636,970	4,377	100,646	621,353	4,830,165	
{ 1875, 1,492,955	2,627,655	3,912	99,689	607,780		
MUNSTER, { 1874, 1,272,268	3,423,055	2,372	109,146	1,125,406	5,932,267	
{ 1875, 1,286,543	3,418,871	1,922	105,207	1,119,611		
ULSTER, { 1874, 1,812,849	2,286,833	3,620	60,379	1,141,938	5,307,619	
{ 1875, 1,833,210	2,285,040	3,824	61,345	1,123,910		
CONNAUGHT, { 1874, 717,058	2,123,564	1,733	52,097	1,382,856	4,227,308	
{ 1875, 718,947	2,100,210	1,629	52,027	1,354,310		
TOTAL, { 1874, 5,269,004	10,472,422	12,102	322,268	4,221,563	20,297,359 †	
{ 1875, 5,331,655	10,431,776	11,287	318,268	4,205,611		

\* Under this head is included the area of barren mountains, roads, towns, and tideways; also all water except that of the larger rivers and lakes.

† Exclusive of the larger rivers, lakes, and tideways.

The area under the several Crops in each year from 1871 to 1875, inclusive, was as under:—

Crops.	1871.	1872.	1873.	1874.	1875.
	Acres.	Acres.	Acres.	Acres.	Acres.
Wheat, . . . . .	244,451	225,294	167,554	187,978	161,321
Oats, . . . . .	1,636,136	1,624,711	1,510,972	1,460,897	1,499,371
Barley, . . . . .	220,979	219,013	230,115	211,608	233,747
Bere and Rye, . . . .	11,555	9,975	9,224	9,901	10,312
Beans and Pease, . . .	10,913	11,821	12,873	11,391	11,647
Potatoes, . . . . .	1,058,434	991,871	903,262	892,425	900,277
Turnips, . . . . .	327,035	346,711	347,848	333,588	332,783
Mangel and Beet Root, .	31,921	34,832	38,231	38,327	43,354
Cabbage, . . . . .	33,008	39,452	28,115	33,184	34,854
Carrots, Parsnips, and other Green Crops, }	29,869	31,196	31,500	34,694	37,184
Vetches and Rape, . .	31,422	30,172	23,417	21,425	21,694
Flax, . . . . .	156,670	121,992	129,297	106,907	101,248
Meadow and Clover, .	1,629,044	1,600,273	1,638,248	1,906,679	1,943,923

Live Stock.

### RETURNS OF LIVE STOCK.

It appears from the following Table that the Returns of Live Stock for 1875, when compared with 1874, show an *increase* in the number of Horses and Mules of 304, of Pigs of 150,049, and of Goats of 12,141; and a *decrease* in Asses of 688, in Cattle of 12,766, in Sheep of 193,540, and in Poultry of 12,607.

Number of  
Live Stock.

The following are the numbers of Live Stock for each year from 1865 to 1875, inclusive:—

Years.	Horses and Mules.	Asses.	Cattle.	Sheep.	Pigs.	Goats.	Poultry.
1865, . . . . .	668,142	160,009	3,497,548	3,694,356	1,305,953	171,207	10,681,945
1866, . . . . .	655,847	173,175	3,746,157	4,274,302	1,497,374	106,880	10,883,747
1867, . . . . .	648,686	167,333	3,707,403	4,035,519	1,235,191	130,429	10,354,310
1868, . . . . .	544,372	160,100	3,646,790	4,901,406	889,878	136,060	10,602,732
1869, . . . . .	547,757	171,664	3,733,675	4,651,195	1,062,224	205,861	10,801,887
1870, . . . . .	532,216	178,717	3,799,912	4,236,894	1,461,216	211,801	11,148,902
1871, . . . . .	557,912	180,373	3,976,372	4,288,435	1,621,423	231,575	11,717,183
1872, . . . . .	600,804	181,351	4,059,397	4,363,234	1,808,671	238,961	11,737,329
1873, . . . . .	552,338	177,779	4,147,102	4,484,520	1,044,454	242,683	11,363,115
1874, . . . . .	547,372	180,430	4,124,756	4,441,690	1,099,186	256,753	12,068,573
1875, . . . . .	547,676	179,742	4,111,990	4,248,158	1,249,233	268,894	12,066,793
Difference in Num- bers between 1874 and 1875, . . . .	Increase, 304	Decrease, 688	Decrease, 12,766	Decrease, 193,540	Increase, 150,049	Increase, 12,141	Decrease, 12,607

Table showing by Provinces the Number of Thoroughbred and other Sires in Ireland in the Year 1875,

*According to the description given of them by the Owners or their Grooms.*

BREED.	PROVINCE OF				TOTAL OF IRELAND.
	LEINSTER.	MUNSTER.	ULSTER.	CONNAUGHT.	
<b>THOROUGHBRED :</b>					
Bred in Ireland, . . .	80	91	50	33	254
Imported, . . .	54	54	28	18	149
Total, . . .	134	145	78	46	403
<b>HALF-BRED :</b>					
Bred in Ireland, . . .	149	161	160	60	530
Imported, . . .	1	3	7	1	12
Total, . . .	150	164	167	61	542
<b>CLYDESDALES :</b>					
Bred in Ireland, . . .	55	27	63	16	161
Imported, . . .	12	11	19	3	45
Total, . . .	67	38	82	19	206
<b>SUFFOLK PUNON :</b>					
Bred in Ireland, . . .	31	32	24	18	100
Imported, . . .	6	10	6	4	26
Total, . . .	37	42	30	17	126
<b>DRAUGHT HORSE :</b>					
Bred in Ireland, . . .	53	42	10	29	134
Imported, . . .	3	1	—	—	4
Total, . . .	56	43	10	29	138
<b>ALL OTHERS : *</b>					
Bred in Ireland, . . .	7	5	21	16	49
Imported, . . .	5	1	5	1	12
Total, . . .	12	6	26	17	61
<b>TOTAL :</b>					
Bred in Ireland, . . .	375	358	328	167	1,228
Imported, . . .	81	80	65	22	248
GENERAL TOTAL,	456	438	393	189	1,476

\* Under the heading "All others," in this Table, are included 8 Cobs, 1 Norwegian Pony, 1 Lincoln, 5 Cleveland, 2 Arabian Ponies, 2 Shetland Ponies, 2 Arabian, 3 Norways, 2 Highland Ponies, 1 Scotch Pony, 1 Highland, 1 Dutch, 10 Ponies, 1 Norfolk Trotter, 1 Ayrshire, 1 Flemish, 1 Norfolk, 2 Welsh, 9 Connemara Ponies, and 1 Scotch Cob. There are also 6 Sires included in the Table, the breed of which is stated to be unknown.

loss of  
live Stock.

The total value of horses, mules, asses, cattle, sheep, pigs, goats, and poultry this year, estimated at the former low prices, is £37,925,832, being a decrease of £102,329 when compared with 1874, as appears by the following Table:—

ESTIMATED VALUE OF LIVE STOCK IN IRELAND in each Year from 1865 to 1875, inclusive, calculated according to the rates assumed by the Census Commissioners of 1841, viz.:—For Horses and Mules, £8 each; Asses, £1; Cattle, £6 10s.; Sheep, £1 2s.; Pigs, £1 5s.; Goats, 7s. 6d.; and Poultry, 6d. each. [These rates have been retained since 1841, in order to facilitate a comparison of the value—one year with another. A per-centage may be added by anyone at pleasure on account of the greatly increased value of live stock since that period.]

YEARS.	Horses and Mules, at £8 each.	Asses, at £1 each.	Cattle, at £6 10s. each.	Sheep, at £1 2s. each.	Pigs, at £1 5s. each.	Goats, at 7s. 6d. each.	Poultry, at 6d. each.	Total Value.
1865.	£ 4,545,135	£ 163,095	£ 22,734,062	£ 4,063,792	£ 1,032,441	£ 64,293	£ 367,049	£ 31,474,832
1866.	4,445,176	173,175	24,350,920	4,791,710	1,871,593	70,600	272,244	35,883,388
1867.	4,349,498	167,233	24,108,719	5,319,071	1,543,989	71,411	238,355	36,810,285
1868.	4,354,976	169,100	23,704,174	5,391,046	1,096,972	74,047	265,070	35,045,365
1869.	4,392,055	171,694	24,263,363	5,116,314	1,352,700	77,196	270,042	35,638,643
1870.	4,417,729	173,717	24,599,429	4,779,572	1,826,519	79,459	278,975	36,246,930
1871.	4,463,296	180,373	25,816,118	4,636,779	2,026,778	86,765	292,929	37,138,338
1872.	4,496,432	191,351	26,396,081	4,639,679	1,357,714	89,610	293,483	37,692,366
1873.	4,418,704	177,779	26,356,163	4,932,972	1,395,567	81,060	296,579	36,170,772
1874.	4,378,976	180,430	26,810,914	4,985,868	1,373,982	96,289	301,709	36,029,161
1875.	4,381,408	179,742	26,797,935	4,672,974	1,561,544	100,435	301,394	37,925,832
Difference in value between 1874 and 1875.	In-crease, £2,432	De-crease, £208	De-crease, £2,017	De-crease, £212,894	In-crease, £187,562	In-crease, £4,553	De-crease, £215	De-crease, £102,329

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**Scutching Mills.**—The number of Mills for scutching Flax in each province in 1874, was—In Ulster, 1,295;—Leinster, 25;—Munster, 31;—Connaught, 29;—making in all 1,380.

**Emigration.**—In the first six months of 1874 the Returns of Emigrants from the several ports of Ireland show that 45,781 persons left this country. The number for the same period in 1875 was 31,095, being a decrease of 14,686 persons in the first half of this year. The emigration referred to is given by months for 1874 and 1875 at page 22.

**Labourers' Dwellings.**—It is impossible, both on social and sanitary grounds, to exaggerate the importance of improving the dwellings of the labouring classes in Ireland; the Legislature has enabled the Treasury to grant loans for this most desirable object through the medium of the Board of Public Works, Dublin. According to the Census of 1871, the number of fourth-class houses in Ireland, most of which had only one room for the entire family of EVERY AGE AND SEX, was ascertained to be very considerable, and in these were living nearly half a million of persons.

On this important subject I beg to quote the following words as reported to have been spoken by your Grace at the Lord Mayor's Banquet, on the 3rd of February last:—

"I believe that at the present moment the average wages of the agricultural labourer in most parts of Ireland are fully 10s. a week, and I know of some



"places where they are more; and though, notwithstanding this increase of wages, which, comparing the prices of the two countries, are fully equal to 12s. in England, we have still a large drain of emigration to lament; yet it is satisfactory to know that during the past year the number of persons emigrating has decreased by, I believe, something like 17,000 persons. But, my lord, I am strongly of opinion that the unsatisfactory dwelling of the agricultural labourer in this country is a stronger reason for his desiring to seek his fortune in a foreign country than any deficiency of wages; and I trust that simultaneously with the increase of wages a more suitable style of dwelling—one more in accordance with the rising wealth of the country—may be in store for the agricultural labourer of the future."

These words of your Grace cannot fail to attract general attention to the present condition of too many of the dwellings of the agricultural labourers in Ireland.

*Weeds.*—Although very great improvement in the breeds and value of every description of Farm Stock has been effected in Ireland, it must be admitted that a corresponding improvement has not taken place in the cultivation of the land. On several occasions I have felt it my duty to solicit public attention to the incalculable injury arising from the unchecked growth of weeds which is, unhappily, permitted in almost every part of the country, and also along the sides of roads, railways, and canals. On this subject I have now given extracts from former Abstracts containing valuable information from the writings of Sir John Sinclair and other eminent persons, which I trust will prove useful to those engaged in the cultivation of land. I have also appended some extracts respecting the vast injury and great pecuniary loss (estimated at nearly two millions sterling) caused by weeds in Ireland from that valuable publication, the "Leisure Hour," in its number for May and June of last year, together with two articles on the subject which appeared in the "Freeman's Journal." At the annual meeting in 1872 of the Royal Agricultural Society in Belfast, the noble President, Lord Lurgan, K.P., referred to "the necessity of acting on the suggestions thrown out in the Reports of the Registrar-General in relation to the extirpation of weeds. They did a deal of mischief, and he thought they should carry out the sentence which the old Scotch law pronounced, declaring 'anyone to be a TRAITOR WHO POISONED THE QUEEN'S LAND WITH WEEDS.'"

I again beg to repeat my most respectful acknowledgments to the landed proprietors, tenant farmers, the clergy of all denominations, and to the public press in Ireland, for a continuance of the same generous and valuable assistance which I have now for so many years experienced in connexion with these Statistics.

I have the honour to be

Your Grace's very faithful servant,

WILLIAM DONNELLY,

*Registrar-General.*

*General Register Office,  
Charlemont House, Dublin,  
13th August, 1875.*

TABLE showing, in Statute Acres, the extent of Land under

Number.	PROVINCES AND COUNTIES, WITH THEIR AREAS IN STATUTE ACRES.	EXTENT OF LAND UNDER						
		Wheat.	Oats.	Barley.	Bere and Rye.	Beans and Pease.	Potatoes.	Turnips.
	LEINSTER:	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
1	Carlow, . . . { 1874, 221,343 acres, { 1875,	3,594 2,748	21,334 22,165	5,242 6,748	10 7	2 2	9,965 10,354	5,015 5,189
2	Dublin, . . . { 1874, 226,895 acres, { 1875,	7,776 6,185	15,512 15,963	2,170 2,840	124 155	104 149	9,921 10,168	2,292 2,405
3	Kildare, . . . { 1874, 418,497 acres, { 1875,	2,772 2,365	26,335 27,618	15,257 16,502	200 310	8 5	9,855 9,568	12,234 12,968
4	Kilkenny, . . . { 1874, 507,254 acres, { 1875,	13,893 11,580	36,836 36,306	15,172 16,678	54 30	4	19,061 19,295	10,305 10,581
5	King's, . . . { 1874, 493,010 acres, { 1875,	1,633 707	23,570 23,442	14,742 16,026	396 491	5 6	16,054 15,346	10,313 10,297
6	Longford, . . . { 1874, 257,222 acres, { 1875,	811 897	19,061 20,013	38 36	237 318	18 6	13,120 13,568	2,839 2,760
7	Louth, . . . { 1874, 201,618 acres, { 1875,	2,604 1,328	25,630 25,123	21,767 23,786	37 28	260 292	12,631 11,995	8,486 9,643
8	Meath, . . . { 1874, 578,247 acres, { 1875,	3,707 2,804	36,846 36,947	1,778 1,773	135 154	70 50	15,319 12,719	7,635 7,365
9	Queen's, . . . { 1874, 424,854 acres, { 1875,	1,823 880	20,865 20,441	26,299 28,180	53 67	8 10	17,358 16,511	13,322 13,320
10	Westmeath, . . . { 1874, 433,769 acres, { 1875,	270 141	25,902 26,500	326 338	142 138	4 7	12,346 11,991	5,846 5,657
11	Wexford, . . . { 1874, 575,700 acres, { 1875,	10,812 10,186	49,358 50,165	48,285 53,258	62 55	3,720 3,302	24,506 25,031	18,193 18,782
12	Wicklow, . . . { 1874, 499,894 acres, { 1875,	5,505 4,458	26,063 25,335	952 1,388	25 23	4 6	11,698 11,854	5,438 5,678
	Total of LEINSTER, { 1874, 4,838,312 acres, { 1875,	55,290 44,289	327,312 330,218	152,018 169,553	1,475 1,778	4,205 3,745	169,645 188,265	103,193 105,145
	Increase or Decrease in LEINSTER in 1875, {	De- crease, 10,931	In- crease, 2,906	In- crease, 17,535	In- crease, 301	De- crease, 460	De- crease, 1,360	In- crease, 2,042

Crops, for each County and Province, in the Years 1874 and 1875.

Crops, in Statute Acres.							Fallow or Un-cropped Arable Land.	Years.	Population in 1871.	Number.
Mangel Wurzel and Beet Root.	Cabbage.	Carrots, Parsnips, and other Green Crops.	Vegetables and Rape.	Flax.	Meadow and Clover.	Total Extent under Crops.				
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.		LEINSTER :	
834 882	777 789	525 541	52 55	1 7	31,027 32,151	78,998 81,638	25 48	1874 1875	}	51,650
722 768	911 898	2,550 2,361	173 184	. .	47,974 51,001	90,229 93,072	139 318	1874 1875		
1,388 1,398	229 234	828 945	396 321	1 1	54,720 57,527	123,912 129,697	361 205	1874 1875	}	83,614
1,524 1,535	1,485 1,753	811 835	229 339	4 2	92,315 92,062	161,693 163,406	1,663 1,569	1874 1875		
1,021 1,021	339 429	899 950	753 745	27 16	47,099 47,437	117,471 117,022	212 136	1874 1875	}	75,900
320 373	801 850	321 315	66 103	380 227	36,028 37,041	74,040 77,102	78 26	1874 1875		
470 488	182 189	742 875	532 603	588 244	22,968 23,057	97,807 97,552	87 60	1874 1875	}	84,021
1,283 1,386	306 304	1,592 1,575	944 467	50 26	79,534 83,325	140,925 148,805	982 553	1874 1875		
2,059 2,374	599 609	760 835	103 169	. .	59,511 59,275	143,059 143,211	172 437	1874 1875	}	79,771
965 1,008	593 810	873 852	655 527	43 20	49,932 51,019	97,797 99,408	138 116	1874 1875		
3,641 3,800	1,358 1,423	1,364 1,219	241 235	9 2	60,523 61,049	222,182 228,916	444 356	1874 1875	}	132,666
969 1,135	489 560	737 788	105 128	5 .	60,941 60,883	112,020 112,436	376 88	1874 1875		
15,738 17,177	8,069 8,639	12,011 12,100	4,009 3,876	1,114 545	812,892 827,027	1,486,809 1,492,955	4,377 3,912	1874 1875	}	Total of LEINSTER, 1,336,451
In-crease, 1,441	In-crease, 570	In-crease, 80	De-crease, 133	De-crease, 569	In-crease, 14,735	In-crease, 26,146	De-crease, 465	} Increase or Decrease in LEINSTER in 1875.		

(continued on page 12.)

TABLE showing, in Statute Acres, the extent of Land under Crops,

Number.	PROVINCES AND COUNTIES, WITH THEIR AREAS IN STATUTE ACRES.		EXTENT OF LAND UNDER							
			Wheat.	Oats.	Barley.	Here and Rye.	Beans and Pease.	Potatoes.	Turnips.	
MUNSTER:			Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
1	Clare, . . . { 1874, 768,205 acres, { 1875,	5,324 3,296	16,111 17,354	2,337 2,130	628 664	149 270	28,449 28,459	6,357 6,339		
2	Cork, E.R., { 1874, 1,031,658 acres, { 1875,	16,799 16,997	84,701 85,245	14,784 16,316	63 97	30 28	41,682 42,764	28,191 28,525		
3	Cork, W.R., { 1874, 807,263 acres, { 1875,	6,806 6,914	27,974 28,200	5,850 5,205	40 109	5 7	30,062 30,980	11,368 11,340		
4	Kerry, . . . { 1874, 1,150,356 acres, { 1875,	1,489 1,311	25,504 24,664	3,950 4,332	683 647	3 14	29,848 30,411	6,111 6,512		
5	Limerick, . . { 1874, 662,973 acres, { 1875,	11,141 6,990	22,405 24,088	3,648 4,017	88 40	15 10	25,732 25,630	6,468 6,419		
6	Tipperary, N.R., { 1874, 512,242 acres, { 1875,	4,444 3,442	24,485 25,301	10,120 11,887	125 141	12 5	18,090 18,032	13,986 13,996		
7	Tipperary, S.R., { 1874, 536,726 acres, { 1875,	11,118 11,079	32,463 32,786	1,263 1,359	50 38	3 11	19,734 20,362	8,572 8,556		
8	Waterford, . . { 1874, 456,197 acres, { 1875,	13,567 12,995	25,840 26,930	1,243 1,440	124 126	40 23	15,631 16,219	8,082 7,823		
Total of Munster, { 1874, 5,934,680 acres, { 1875,		70,688 63,024	259,492 264,568	43,301 46,717	1,807 1,871	259 368	209,231 212,837	88,525 88,519		
Increase or Decrease in Munster in 1875, {		De- crease, 7,664	In- crease, 5,076	In- crease, 3,510	In- crease, 64	In- crease, 109	In- crease, 3,626	De- crease, 16		
CONNAUGHT:										
1	Galway, . . . { 1874, 1,501,745 acres, { 1875,	8,302 5,186	55,807 57,485	4,487 5,082	1,645 1,676	70 35	52,254 52,311	16,069 15,387		
2	Leitrim, . . . { 1874, 376,212 acres, { 1875,	67 61	15,797 12,712	12 11	191 218	5 1	20,003 20,453	893 733		
3	Mayo, . . . { 1874, 1,318,129 acres, { 1875,	2,161 1,122	68,125 69,543	2,361 1,849	1,866 1,811	47 19	60,089 61,545	12,249 12,420		
4	Roscommon, . . { 1874, 585,407 acres, { 1875,	711 490	32,858 30,945	84 113	490 634	3 1	31,495 31,437	5,080 4,603		
5	Sligo, . . . { 1874, 431,129 acres, { 1875,	764 559	29,427 29,003	1,407 986	135 210	4 4	24,144 24,876	3,796 3,728		
Total of CONNAUGHT, { 1874, 4,282,622 acres, { 1875,		12,005 7,418	200,014 199,686	8,251 8,041	4,327 4,547	129 80	187,985 190,622	38,066 36,868		
Increase or Decrease in CONNAUGHT in 1875, {		De- crease, 4,587	De- crease, 326	De- crease, 210	In- crease, 220	De- crease, 69	In- crease, 2,637	De- crease, 1,122		

for each County and Province, in the Years 1874 and 1875—continued.

CROPS, BY STATUTE ACRES.								Fallow or Uncropped Arable Land.	Years.	Population in 1871.	Number.
Mangel Wurzel and Beet Root.	Cabbages.	Carrots, Parsnips, and other Green Crops.	Vetches and Rape.	Flax.	Meadow and Clover.	Total Extent under Crops.					
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.			MUNSTER:	
1,374	1,715	668	89	287	62,647	146,415	32	1874	}	147,684	1
1,646	1,694	679	51	243	64,927	147,764	63	1875			
4,191	1,362	1,767	2,289	174	103,961	300,014	689	1874	}	343,644	2
4,610	1,322	1,836	2,274	54	104,651	304,959	356	1875			
1,363	1,395	1,320	1,391	516	42,737	130,669	447	1874	}	176,232	3
1,705	1,349	1,362	1,341	324	42,216	130,973	477	1875			
1,361	2,732	612	276	245	63,240	156,056	52	1874	}	196,586	4
1,359	3,309	500	232	259	63,573	157,323	135	1875			
1,571	1,463	794	163	41	106,634	160,163	377	1874	}	191,936	5
1,600	1,367	634	147	33	103,675	161,239	194	1875			
1,789	1,402	624	430	5	57,246	131,861	134	1874	}	93,617	6
1,974	1,435	682	426	8	56,426	134,753	157	1875			
1,248	1,554	741	147	4	58,497	135,304	442	1874	}	123,096	7
1,266	1,802	700	173	4	60,225	138,163	289	1875			
1,774	1,142	946	160	1	22,957	91,516	199	1874	}	123,310	8
1,911	1,331	766	123	2	21,669	91,360	251	1875			
14,671	12,785	7,472	4,945	1,263	537,919	1,272,266	2,372	1874	}	Total of Munster, 1,393,485.	
16,475	13,509	7,361	4,767	925	565,562	1,286,543	1,922	1875			
In-crease, 1,604	In-crease, 724	De-crease, 91	De-crease, 176	De-crease, 356	In-crease, 7,643	In-crease, 14,265	De-crease, 450	Increase or Decrease in Munster in 1875.			
CONNAUGHT:											
1,655	1,152	1,222	3,791	44	70,518	216,037	687	1874	}	246,458	1
2,164	1,349	1,447	3,227	67	73,900	219,316	779	1875			
394	1,412	362	62	362	48,367	83,916	64	1874	}	95,562	2
320	1,285	367	49	242	44,266	80,758	230	1875			
274	1,858	1,051	469	639	67,846	169,137	679	1874	}	246,030	3
621	2,131	1,174	744	677	40,695	194,054	263	1875			
477	939	391	787	119	60,549	153,992	138	1874	}	140,670	4
556	900	469	778	86	60,054	131,088	80	1875			
139	1,177	345	166	317	31,213	93,056	145	1874	}	115,493	5
128	1,118	338	234	173	32,366	93,731	277	1875			
2,939	6,539	3,371	5,297	1,701	246,495	717,056	1,733	1874	}	Total of CONNAUGHT, 846,213.	
3,469	6,761	3,635	5,032	1,245	251,306	716,947	1,629	1875			
In-crease, 550	In-crease, 242	In-crease, 464	De-crease, 265	De-crease, 456	In-crease, 4,611	In-crease, 1,669	De-crease, 104	Increase or Decrease in CONNAUGHT in 1875.			

(continued on page 14.)

TABLE showing, in Statute Acres, the extent of Land under Crops,

Number.	PROVINCES AND COUNTIES, WITH THEIR AREAS IN STATUTE ACRES.	EXTENT OF LAND UNDER						
		Wheat.	Oats.	Barley.	Bere and Rye.	Beans and Pease.	Potatoes.	Turnips.
	ULSTER:	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
1	Antrim, . . . {1874, 711,276 acres, {1875,	5,601 5,372	80,448 83,066	1,031 1,146	61 04	3,262 3,440	46,857 48,150	10,145 10,471
2	Armagh, . . . {1874, 315,036 acres, {1875,	7,430 7,116	64,450 67,106	303 552	43 40	687 908	29,240 29,658	7,892 8,328
3	Cavan, . . . {1874, 466,261 acres, {1875,	589 525	50,724 52,826	28 40	101 66	12 34	28,460 28,823	3,910 3,742
4	Donegal, . . . {1874, 1,190,269 acres, {1875,	1,314 864	96,383 96,393	2,811 3,139	636 557	645 855	47,016 47,694	17,239 17,083
5	Down, . . . {1874, 611,937 acres, {1875,	26,894 26,214	119,569 123,905	517 579	190 242	1,277 1,114	52,684 54,558	26,254 19,334
6	Fermanagh, . . {1874, 417,605 acres, {1875,	629 543	24,337 24,038	23 18	160 170	27 29	16,911 17,076	8,330 3,306
7	Londonderry, . {1874, 513,888 acres, {1875,	3,070 2,050	78,808 77,662	1,418 1,656	827 679	656 772	35,008 33,780	15,688 14,468
8	Monaghan, . . {1874, 316,806 acres, {1875,	1,618 1,214	62,007 63,889	1,055 2,202	120 118	88 102	23,836 23,991	8,371 8,846
9	Tyrone, . . . {1874, 778,944 acres, {1875,	2,904 2,693	117,354 116,092	52 44	154 152	142 160	44,832 44,823	16,916 16,663
	Total of ULSTER, {1874, 5,321,582 acres, {1875,	50,065 46,590	694,079 704,897	8,138 9,436	2,292 2,118	6,799 7,474	325,524 328,533	103,945 102,236
	Increase or Decrease in ULSTER in 1875, . {	De- crease, 3,475	In- crease, 10,818	In- crease, 1,298	De- crease, 174	In- crease, 676	In- crease, 2,969	De- crease, 1,709
	Total of IRELAND, {1874, 20,327,196 acres, {1875,	187,978 161,321	1,480,897 1,469,371	211,608 233,747	9,901 10,312	11,391 11,647	802,425 900,277	833,388 832,753
	Increase or Decrease in IRELAND in 1875, . {	De- crease, 26,657	In- crease, 18,474	In- crease, 22,139	In- crease, 411	In- crease, 256	In- crease, 7,852	De- crease, 895

for each County and Province, in the Years 1874 and 1875—continued.

## CROPS, IN STATUTE ACRES.

CROPS, IN STATUTE ACRES.							Fallow or Un-cropped Arable Land.	Years.	Population in 1871.	Number.
Mangel Wurzel and Beet Root.	Cabbages.	Carrots, Parsnips, and other Green Crops.	Vetches and Rape.	Flax.	Meadow and Clover.	Total Extent under Crops.				
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.		ULSTER:	
438 668	219 159	1,431 1,359	1,067 1,428	9,192 9,442	82,185 83,405	242,045 248,200	1,306 754	1874 1875	404,015	1
294 453	191 172	1,705 1,007	983 1,298	7,906 7,080	42,137 44,521	163,251 168,892	180 93	1874 1875		
477 566	1,335 1,253	1,039 1,016	218 177	5,741 5,298	81,603 81,946	154,237 156,312	113 53	1874 1875	140,735	2
450 567	1,428 1,569	1,003 1,199	1,051 854	11,408 11,601	50,398 55,371	231,842 237,746	708 285	1874 1875		
1,026 1,228	415 306	2,236 2,535	2,022 2,713	22,337 17,909	70,545 72,887	320,185 322,979	326 1,684	1874 1875	293,449	3
741 895	496 445	596 651	103 81	2,526 2,823	54,586 56,344	104,345 107,019	324 169	1874 1875		
847 591	576 926	1,047 2,256	953 777	17,381 16,402	39,070 30,073	196,357 188,018	393 285	1874 1875	173,006	7
464 583	588 337	1,050 1,005	348 247	8,692 7,925	82,361 32,699	141,808 143,208	50 123	1874 1875		
426 582	553 778	1,653 2,240	429 446	17,576 19,993	55,908 55,582	258,799 260,238	220 398	1874 1875	215,766	5
4,981 6,133	5,791 5,945	11,840 13,868	7,174 8,019	102,800 98,533	480,373 499,428	1,812,849 1,835,210	3,620 3,824	1874 1875		
									Total of ULSTER,	1,833,228
In- crease, 1,152	In- crease, 154	In- crease, 2,028	In- crease, 845	De- crease, 4,276	In- crease, 10,055	In- crease, 20,361	In- crease, 204	Increase or Decrease in ULSTER in 1875.		
38,327 43,274	33,184 34,874	34,694 37,184	21,425 21,694	108,907 101,248	1,908,679 1,943,923	5,269,004 5,381,655	12,102 11,287	1874 1875	Total of IRELAND, 5,412,377	
In- crease, 4,947	In- crease, 1,690	In- crease, 2,490	In- crease, 269	De- crease, 5,659	In- crease, 37,244	In- crease, 62,651	De- crease, 815	Increase or Decrease in IRELAND in 1875.		

TABLE showing the Number of LIVE STOCK in each

Number.	PROVINCES AND COUNTIES.	HORSES, with the purposes for which it was stated they are kept, or introduced by the Owners.						Number of Mares.	Number of Asses.	CATTLE.			
		Two years old and upwards.			One year old and under two years.	Under one year.	Total Number of Horses.			Milch Cows.	Other Cattle.		
		Agricultural.	Trade and Manufactures.	Amusement or Recreation.							Two years old and up- wards.	Other cattle under two years.	
LEINSTER :													
1	Carlow. {	1874, 5,012	202	423	795	803	7,235	412	2,737	13,912	11,198	12,389	
	1875, 4,960	148	483	896	838	7,325	414	2,613	13,813	12,380	11,892		
2	Dublin. {	1874, 5,729	0,400	3,339	856	657	20,630	306	2,174	14,947	24,251	9,812	
	1875, 5,649	0,134	3,508	922	666	19,873	320	2,690	14,722	23,469	9,484		
3	Kildare. {	1874, 7,314	914	1,556	1,808	1,358	12,850	380	4,315	13,711	43,316	18,900	
	1875, 7,538	1,084	1,679	1,858	1,213	13,372	421	4,292	13,528	46,832	17,586		
4	Kilkenny. {	1874, 11,251	481	742	1,728	1,801	16,003	871	5,219	40,919	21,296	36,571	
	1875, 11,095	564	730	1,034	2,046	16,369	901	5,334	41,741	24,831	28,218		
5	King's, {	1874, 8,350	396	631	1,843	1,586	12,925	828	6,078	15,979	27,563	18,108	
	1875, 8,352	343	633	1,917	1,670	12,924	865	6,181	16,247	30,668	14,409		
6	Longford. {	1874, 3,832	171	236	978	865	6,102	615	2,946	18,340	12,758	12,432	
	1875, 3,827	70	240	1,045	988	6,170	619	2,908	18,960	12,305	12,169		
7	Louth. {	1874, 7,232	632	627	1,045	1,101	10,747	220	1,743	9,420	13,542	10,461	
	1875, 7,126	743	602	1,107	1,271	10,930	228	1,764	9,747	13,813	9,398		
8	Meath. {	1874, 8,473	587	1,734	2,386	1,607	14,789	640	2,967	16,478	104,700	34,374	
	1875, 8,530	372	1,884	2,316	1,802	15,124	678	3,072	16,111	110,008	30,221		
9	Queen's, {	1874, 8,039	370	770	1,530	1,460	12,760	704	6,164	21,372	24,623	19,310	
	1875, 8,568	311	806	1,520	1,317	12,542	754	5,945	21,841	26,092	17,302		
10	Westmeath. {	1874, 6,836	202	863	1,773	1,404	11,158	678	4,100	16,031	42,673	23,038	
	1875, 6,754	172	889	1,867	1,563	11,245	638	4,042	16,043	45,062	21,765		
11	Wexford. {	1874, 18,343	576	1,083	2,596	2,720	25,318	1,336	8,659	40,081	20,792	23,238	
	1875, 18,398	468	1,000	2,963	2,840	25,699	1,156	8,002	40,687	25,566	23,236		
12	Wicklow. {	1874, 7,593	409	761	1,317	1,138	11,238	323	3,455	26,968	19,188	18,673	
	1875, 7,188	408	730	1,633	1,239	11,218	300	3,498	26,549	22,033	18,350		
Total of LEINSTER. {		1874, 98,685	14,349	12,755	18,636	16,610	161,064	7,322	49,306	248,958	365,520	224,858	
		1875, 98,029	13,817	13,304	20,298	17,456	162,890	7,294	49,743	249,889	338,540	222,010	
Increase or De- crease in LEIN- STER in 1875, . {		De- crease 656	De- crease 532	In- crease 449	In- crease 1,663	In- crease 846	In- crease 1,736	In- crease 72	De- crease 168	In- crease 931	In- crease 27,620	De- crease 13,848	



## County and Province in the Years 1874 and 1875.

SHEEP.						Pigs.			Number of Goats.	Number of Poultry.	Years.	Number.
Cattle.		One year old and upwards.		Under one year.	Total Number of Sheep.	One year old and upwards.	Under one year.	Total Number of Pigs.				
Under one year.	Total Number of Cattle.	Ewes.	Tups and Wethers.									
11,434	48,926	29,879	17,597	27,917	75,393	2,541	20,148	22,689	2,932	160,371	1874	1
10,461	48,672	30,004	19,302	27,919	77,225	2,221	20,763	23,684	3,364	164,492	1875	1
6,711	55,722	34,713	30,206	20,329	81,248	2,771	16,739	19,510	6,238	203,615	1874	2
6,149	53,764	29,701	15,236	22,067	67,004	2,106	13,303	15,409	6,183	197,977	1875	2
10,630	86,567	67,421	44,685	58,314	170,420	1,316	13,424	14,740	3,138	212,991	1874	3
10,344	88,404	61,868	40,522	51,498	153,798	1,797	12,119	13,916	3,908	227,746	1875	3
20,524	122,410	51,491	29,382	48,111	128,994	5,474	39,952	45,426	6,315	394,013	1874	4
23,265	126,073	47,421	28,473	41,765	120,659	5,736	43,115	48,851	6,828	379,918	1875	4
10,096	71,734	52,706	43,110	54,284	150,100	2,251	18,718	20,969	3,795	261,723	1874	5
9,305	72,846	52,228	38,893	49,816	140,939	2,073	20,066	22,739	3,363	249,763	1875	5
12,980	56,640	14,434	7,356	14,675	36,465	1,778	13,572	15,350	7,091	192,838	1874	6
13,675	57,134	14,527	9,917	14,246	35,690	2,178	17,047	20,125	8,436	154,785	1875	6
6,361	39,724	27,003	5,239	24,414	56,656	1,472	12,426	13,898	4,917	210,108	1874	7
6,370	39,528	24,660	5,014	20,368	50,042	1,470	14,836	16,326	5,461	223,844	1875	7
13,934	166,486	93,194	63,019	84,417	242,630	1,962	12,080	14,542	6,105	269,090	1874	8
13,921	170,261	86,481	55,968	78,714	221,163	1,972	14,158	16,130	6,591	283,387	1875	8
12,036	78,391	41,219	23,631	38,508	108,258	3,283	24,153	27,436	5,491	254,253	1874	9
12,166	77,241	40,559	23,390	36,553	100,502	3,221	25,877	29,098	5,288	256,444	1875	9
15,115	97,757	55,506	54,038	64,309	173,943	1,274	16,081	17,355	7,236	294,527	1874	10
14,014	96,802	52,084	30,222	58,728	161,034	1,269	17,805	19,154	6,678	256,257	1875	10
29,816	120,897	66,734	37,023	60,016	163,773	8,895	54,722	63,617	5,336	497,536	1874	11
27,534	122,103	69,820	35,760	66,423	166,003	8,095	56,179	65,174	5,616	476,351	1875	11
17,391	81,520	67,040	58,454	71,616	217,056	3,160	18,109	21,358	6,684	188,526	1874	12
15,555	82,290	84,054	64,943	67,207	217,104	3,350	18,787	22,137	6,895	184,327	1875	12
177,032	1,026,774	623,436	408,740	573,839	1,805,925	36,077	260,613	296,690	61,186	3,056,687	1874	
164,679	1,029,118	594,397	384,643	582,214	1,611,163	37,700	275,035	312,743	61,416	2,637,291	1875	
De-crease 12,359	In-crease 2,344	De-crease 29,129	De-crease 24,096	De-crease 40,636	De-crease 93,863	In-crease 1,631	In-crease 14,222	In-crease 15,853	In-crease 2,328	De-crease 41,396	—	

(continued on page 18.

B

TABLE showing the Number of LIVE STOCK in each

Number.	PROVINCES AND COUNTIES.	HORSES, with the purpose for which it was stated they are kept, or intended by the Owners.							Number of Mules.	Number of Asses.	CATTLE.			
		Two years old and upwards.		Amusement or Recreation.	One year old and under two years.	Under one year.	Total Number of Horses.	Milch Cows.			Other.			
		Agricultural.	Traffic and Manufactures.								Two years old and up- wards.	Owes old and under two years.		
MUNSTER:														
1	Clare, .	1874, 10,634	372	627	1,944	1,723	15,300	419	9,084	56,299	39,150	41,027		
		1875, 10,302	405	591	1,977	1,633	14,908	363	8,893	57,623	38,722	37,512		
2	Cork, E.R.,	1874, 21,266	1,976	2,271	3,853	3,877	33,243	1,157	5,914	98,314	34,294	40,389		
		1875, 21,042	1,537	2,078	4,367	4,080	33,084	1,246	6,243	101,023	26,806	36,411		
3	Cork, W.R.	1874, 14,118	264	575	1,539	2,213	16,729	223	2,515	92,053	15,020	28,145		
		1875, 13,769	302	502	1,802	2,250	16,517	197	2,378	86,218	16,793	26,283		
4	Kerry, .	1874, 11,344	445	553	1,401	1,516	13,161	1,656	7,541	109,070	36,713	32,162		
		1875, 10,665	408	564	1,348	1,680	14,675	1,841	7,923	112,140	30,261	32,341		
5	Limerick, .	1874, 10,517	002	1,098	1,400	1,313	15,329	1,204	7,719	97,692	22,305	15,087		
		1875, 10,072	786	1,075	1,576	1,300	14,800	1,297	7,653	99,418	24,385	26,063		
6	Tipperary, N.R.,	1874, 8,599	365	077	1,722	1,561	12,924	751	6,101	31,864	27,006	27,408		
		1875, 8,605	290	741	1,809	1,690	13,135	821	6,336	32,647	29,537	24,321		
7	Tipperary, S.R.,	1874, 8,732	433	1,003	1,446	1,336	13,660	864	6,075	51,962	21,875	24,573		
		1875, 8,411	551	988	1,644	1,342	12,936	861	6,665	52,381	24,960	23,867		
8	Waterford, .	1874, 8,309	608	833	1,446	1,351	12,637	037	3,865	43,702	11,870	20,419		
		1875, 8,217	539	739	1,747	1,515	12,771	047	3,926	44,600	14,811	18,009		
	Total of MUNSTER, .	1874, 98,329	5,363	7,729	14,070	14,300	136,283	5,931	40,414	571,065	191,033	262,562		
		1875, 91,076	4,818	7,292	16,160	15,419	131,815	7,233	50,616	586,139	200,004	224,781		
Increase or De- crease in MUN- STER in 1875, .		De- crease 2,453	De- crease 547	De- crease 437	In- crease 1,290	In- crease 599	De- crease 1,548	In- crease 282	In- crease 602	In- crease 14,294	In- crease 12,171	De- crease 17,598		
CONNAUGHT:														
1	Galway, .	1874, 16,368	802	1,255	3,316	3,850	25,491	1,243	14,216	42,448	66,864	35,222		
		1875, 15,080	897	1,180	3,320	4,153	24,239	1,337	14,093	43,391	70,721	34,190		
2	Leitrim, .	1874, 2,122	372	197	413	353	3,457	238	7,300	39,368	15,001	17,230		
		1875, 2,078	233	178	391	388	3,268	270	7,311	41,134	14,215	14,945		
3	Mayo, .	1874, 12,186	540	608	1,529	2,340	17,203	1,505	20,087	58,734	53,044	30,324		
		1875, 11,887	464	511	1,096	2,816	17,374	1,780	19,546	59,963	53,049	31,890		
4	Roscommon, .	1874, 4,691	334	688	1,300	1,068	8,079	1,033	7,616	29,000	27,944	22,773		
		1875, 4,414	326	747	1,321	1,244	8,052	1,045	7,747	31,782	30,630	23,513		
5	Sligo, .	1874, 4,940	294	565	815	601	7,095	580	7,639	34,508	20,630	19,030		
		1875, 4,796	378	334	759	586	7,153	465	7,192	36,614	20,872	18,518		
	Total of CONNAUGHT, .	1874, 46,207	2,342	3,103	7,773	8,309	61,325	4,599	56,064	203,018	193,468	124,285		
		1875, 39,853	2,296	2,936	7,487	9,407	61,086	4,857	56,189	212,384	180,517	121,886		
Increase or De- crease in CON- NAUGHT in 1875, .		De- crease 1,352	De- crease 44	De- crease 144	In- crease 114	In- crease 1,187	De- crease 239	In- crease 258	De- crease 675	In- crease 9,200	In- crease 6,134	De- crease 2,739		

County and Province in the Years 1874 and 1875—continued.

County and Province in the Years 1874 and 1875.												
Cattle.		SHEEP.				Pigs.			Number of Cattle.	Number of Poultry.	Years.	Number.
		One year old and upwards.		Under one year.	Total Number of Sheep.	One year old and upwards.	Under one year.	Total Number of Pigs.				
Under one year.	Total Number of Cattle.	Ewes.	Tups and Wethers.									
37,231	174,007	67,916	38,408	61,064	107,388	6,314	80,493	36,807	14,260	397,369	1874	1
23,334	165,191	60,493	34,328	54,160	148,027	6,963	84,068	41,031	14,314	393,837	1875	2
56,436	219,420	105,224	28,142	90,372	223,738	14,589	71,830	86,419	13,750	579,052	1874	3
40,288	210,082	101,187	26,826	85,541	212,534	16,308	75,979	92,285	13,920	571,224	1875	4
35,833	162,451	65,402	11,846	51,810	120,058	9,216	40,704	49,920	10,041	401,983	1874	5
31,321	160,615	65,188	12,334	50,310	124,032	10,546	44,859	55,403	10,977	404,248	1875	6
44,193	215,147	53,672	16,750	35,542	105,904	8,000	41,519	49,589	24,926	385,774	1874	7
43,039	217,701	53,557	17,235	35,227	106,019	8,132	43,731	51,863	25,319	385,943	1875	8
39,128	205,112	52,272	10,999	25,571	77,842	7,295	43,533	50,828	10,297	375,736	1874	9
49,882	199,738	28,886	17,089	24,290	70,244	8,653	40,328	57,081	10,088	365,895	1875	10
21,254	108,402	62,109	30,696	62,772	161,037	4,460	28,612	33,072	5,890	281,320	1874	11
18,710	105,225	57,303	33,501	57,567	148,431	4,767	33,939	38,706	6,164	289,800	1875	12
36,002	134,412	58,017	33,633	53,215	141,025	5,239	36,153	41,412	5,973	339,992	1874	13
29,984	130,801	55,567	27,554	50,076	133,197	0,144	40,394	46,538	6,526	334,739	1875	14
23,014	99,035	28,617	9,760	26,256	64,633	6,446	39,253	45,099	4,944	230,577	1874	15
18,157	95,656	28,227	8,290	24,234	60,730	7,497	41,718	49,215	4,262	226,307	1875	16
513,091	1,335,632	473,289	195,234	406,642	1,073,165	61,579	332,117	393,886	90,376	2,901,603	1874	17
299,805	1,264,438	450,438	176,326	381,330	1,006,124	63,028	384,010	433,024	92,130	2,971,393	1875	18
De-crease, 43,286	De-crease 34,193	De-crease, 22,821	De-crease, 18,928	De-crease, 25,312	De-crease, 67,061	In-crease, 7,429	In-crease, 31,899	In-crease, 39,328	In-crease, 1,774	De-crease 19,810	—	19
22,517	106,851	258,585	217,078	206,844	682,607	6,698	42,222	48,920	9,668	622,906	1874	20
23,780	171,022	247,434	217,134	199,799	658,357	7,370	50,201	57,571	11,260	619,406	1875	21
21,062	93,261	8,157	2,093	7,320	18,176	2,605	15,410	18,015	5,534	245,099	1874	22
28,093	93,269	7,538	2,637	6,375	16,548	3,082	18,900	21,982	5,346	249,837	1875	23
26,208	160,310	125,048	72,148	103,703	300,899	5,325	35,800	41,123	5,220	603,150	1874	24
22,752	174,614	124,202	72,451	103,585	300,238	6,991	46,070	53,601	4,855	584,864	1875	25
18,791	99,468	72,249	08,505	65,021	205,965	3,360	22,196	26,576	10,013	404,400	1874	26
21,271	106,216	71,827	65,547	65,948	203,322	3,681	27,778	31,499	11,638	403,708	1875	27
20,037	93,631	27,361	13,384	23,991	64,730	1,678	13,590	15,268	2,785	287,574	1874	28
22,029	97,533	27,877	12,847	24,573	65,297	2,540	17,048	19,588	3,063	269,163	1875	29
101,483	619,521	401,500	373,998	406,885	1,273,283	16,496	129,218	145,964	33,630	2,163,738	1874	30
116,097	642,634	478,080	370,016	364,299	1,243,762	23,614	168,567	184,211	36,282	2,126,978	1875	31
In-crease, 10,462	In-crease 23,133	De-crease, 12,634	De-crease, 3,282	De-crease, 12,605	De-crease, 28,521	In-crease, 3,026	In-crease, 31,379	In-crease, 35,307	In-crease, 2,452	De-crease 36,760	—	32

(continued on page 20.)

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TABLE showing the Number of **LIVE STOCK** in each

Number.	PROVINCES AND COUNTIES.	Horses, with the purpose for which it was stated they are kept, or intended by the Owners.						Number of Mules.	Number of Asses.	CATTLE.			
		Two years old and upwards.			One year old and under two years.	Under one year.	Total Number of Horses.			Milch Cows.	Other.		
		Agricultural.	Traffic and Manufactures.	Amusement or Recreation.							Two years old and up- wards.	Oxyen- old and under two years.	
ULSTER:													
1	Antrim.	1874, 21,190	3,022	1,144	1,684	1,862	28,592	66	645	63,931	24,609	34,720	
		1875, 20,026	2,552	1,148	2,103	2,125	26,354	67	675	63,229	23,993	31,812	
2	Armagh.	1874, 9,973	620	433	512	643	12,181	104	1,543	32,315	12,196	30,441	
		1875, 9,973	587	410	577	811	12,760	213	1,680	33,602	10,876	18,363	
3	Cavan.	1874, 7,016	329	377	922	1,050	9,703	986	9,066	48,862	16,990	23,709	
		1875, 6,810	356	361	930	1,213	9,670	1,024	8,745	50,293	10,847	21,829	
4	Donegal.	1874, 10,722	385	329	1,029	1,549	23,005	39	1,935	69,644	36,009	36,642	
		1875, 10,765	521	315	1,104	1,799	22,504	42	1,921	71,852	36,368	35,058	
5	Down.	1874, 25,119	1,407	1,007	1,929	2,108	31,560	148	1,245	55,766	18,363	35,189	
		1875, 24,884	1,139	1,045	2,021	2,607	31,606	126	1,160	56,206	16,958	32,008	
6	Fermanagh.	1874, 5,244	185	293	430	490	6,660	131	4,196	43,548	15,813	14,905	
		1875, 5,248	193	308	512	581	6,842	147	4,220	44,028	14,954	14,154	
7	Lderry.	1874, 17,517	446	551	1,390	1,891	21,701	79	571	45,558	16,491	24,067	
		1875, 17,111	675	485	1,145	1,843	21,259	16	415	46,715	15,535	22,692	
8	Monaghan.	1874, 8,330	224	209	556	757	10,166	386	4,030	33,214	11,082	20,644	
		1875, 8,194	285	203	647	827	10,246	377	3,961	34,740	11,091	17,783	
9	Tyrone.	1874, 20,378	546	433	1,031	1,509	23,917	74	1,015	74,696	31,052	34,918	
		1875, 20,153	616	487	1,190	1,862	24,308	80	1,006	78,171	20,093	32,130	
	Total of ULSTER.	1874, 134,491	7,161	4,377	9,008	11,077	167,815	2,043	24,246	467,534	172,807	214,781	
		1875, 132,761	6,921	4,192	10,229	13,028	167,139	2,062	23,794	470,620	166,715	226,451	
Increase or De- crease in ULSTER		De- crease 2,729	De- crease 240	De- crease 25	In- crease 821	In- crease 1,791	De- crease 376	In- crease 79	De- crease 452	In- crease 12,096	De- crease 6,092	De- crease 18,150	
	TOTAL OF IRELAND.	1874, 301,020	21,229	20,164	50,316	31,677	536,387	20,715	181,430	1,401,473	513,643	646,207	
		1875, 289,732	20,507	20,307	54,174	36,106	526,169	21,516	179,742	1,329,352	533,676	794,138	
Increase or De- crease in IRE- LAND in 1875.		De- crease 7,136	De- crease 1,963	De- crease 157	In- crease 3,858	In- crease 4,423	De- crease 497	In- crease 731	De- crease 688	In- crease 37,477	In- crease 30,833	De- crease 32,069	

County and Province in the Years 1874 and 1875—continued.

		SHEEP.				PIGS.			Number of Goats.	Number of Poultry.	Years.	Number.
CATTLE.		One year old and upwards.		Under one year.	Total Number of Sheep.	One year old and upwards.	Under one year.	Total Number of Pigs.				
Under one year.	Total Number of Cattle.	Ewes.	Tups and Wethers.									
36,586 33,928	160,052 155,062	38,350 37,346	10,902 8,418	32,514 32,409	80,866 78,184	3,474 5,039	48,082 50,507	48,526 56,460	4,774 5,094	383,351 378,913	1874 1875	1
18,097 19,683	83,850 82,614	7,234 6,626	1,134 1,123	6,088 7,225	15,356 14,974	3,037 3,349	16,007 21,715	19,044 23,064	8,144 8,540	308,172 321,062	1874 1875	2
30,728 31,428	120,340 120,399	12,121 12,262	3,502 2,593	12,598 12,467	28,224 27,322	6,174 7,986	28,201 34,277	34,375 42,263	14,695 13,800	423,502 422,501	1874 1875	3
34,896 38,708	177,181 182,590	84,810 81,697	29,877 35,839	59,161 50,173	173,854 178,709	3,299 3,979	17,432 22,311	20,731 26,290	2,215 2,128	523,873 560,513	1874 1875	4
36,374 35,508	145,694 140,742	28,399 31,489	7,728 9,365	26,702 28,283	63,729 69,127	5,278 6,017	36,058 41,468	41,336 47,483	11,089 12,845	550,593 547,337	1874 1875	5
25,556 20,669	99,892 100,405	5,990 5,706	1,691 1,901	6,034 5,762	13,718 13,459	2,103 2,722	15,201 18,691	17,304 21,413	3,818 4,818	313,328 323,635	1874 1875	6
27,416 26,778	113,472 112,720	18,607 16,929	4,512 3,744	18,738 16,811	41,907 37,484	3,901 3,732	24,169 29,801	28,079 33,333	4,159 4,210	321,468 316,997	1874 1875	7
21,337 21,418	85,677 85,034	8,372 8,031	1,208 1,406	9,293 8,918	18,873 18,353	2,506 3,734	18,904 21,568	21,360 28,302	9,907 10,449	271,977 401,848	1874 1875	8
42,977 45,785	173,643 170,197	25,832 23,583	6,559 6,906	22,379 22,090	54,677 52,495	3,874 4,861	24,030 33,589	28,810 38,441	6,959 7,371	611,081 607,580	1874 1875	9
274,767 261,963	1,133,066 1,135,739	229,031 213,286	66,216 71,383	183,357 180,941	499,294 493,109	23,726 42,323	223,660 276,913	252,696 219,257	96,323 72,046	3,814,147 3,899,506	1874 1875	10
In-crease 7,196	De-crease 4,050	De-crease 5,931	In-crease 5,169	De-crease 3,313	De-crease 4,005	In-crease 6,603	In-crease 52,938	In-crease 59,561	In-crease 3,667	In-crease 83,359	—	—
673,331 833,341	4,124,756 4,111,990	1,817,059 1,747,321	1,844,140 1,902,969	1,379,734 1,497,353	4,411,628 4,345,158	153,071 172,669	946,106 1,076,566	1,069,136 1,249,235	293,733 293,394	12,063,275 12,083,760	1874 1875	11
De-crease 37,997	De-crease 12,766	De-crease 70,585	De-crease 41,139	De-crease 81,866	De-crease 193,340	In-crease 19,591	In-crease 130,458	In-crease 150,049	In-crease 12,141	De-crease 12,607	—	—

Number of Irish Emigrants from each Province, during the first SIX Months of 1874 and 1875, and the Increase or Decrease in the latter Year, compiled from Returns obtained by the Constabulary, who acted as Enumerators at the several Irish Ports.

Months.	PROVINCES.											
	LEINSTER.				MUNSTER.				ULSTER.			
	1874. Persons.	1875.	In- crease.	De- crease.	1874. Persons.	1875.	In- crease.	De- crease.	1874. Persons.	1875.	In- crease.	De- crease.
January, .	217	244	27	.	380	558	178	.	1,961	907	.	1,074
February, .	291	424	130	.	1,123	950	.	173	1,029	1,093	.	536
March, .	725	695	.	60	1,532	1,374	.	158	2,435	1,361	.	874
April, .	1,379	1,528	.	51	3,888	3,745	.	143	3,441	2,438	.	1,003
May, .	2,900	1,380	.	1,511	5,440	2,911	.	2,529	4,556	2,987	.	1,569
June, .	1,369	748	.	621	2,518	1,822	.	696	2,894	1,938	.	956
Total,	7,114	5,078	.	2,036	14,691	11,300	.	3,391	16,336	10,324	.	6,012

  

Months.	CONNAUGHT.				FROM WHAT PROVINCE NOT STATED.				IRELAND.			
	1874.	1875.	In- crease.	De- crease.	1874.	1875.	In- crease.	De- crease.	1874.	1875.	In- crease.	De- crease.
January, .	151	97	.	54	3	.	.	3	2,732	1,806	.	926
February, .	294	163	.	61	.	1	1	.	3,270	2,631	.	639
March, .	740	473	.	267	.	.	.	.	5,462	4,103	.	1,359
April, .	2,048	1,469	.	579	9	.	.	9	10,865	9,180	.	1,785
May, .	2,687	1,051	.	1,636	1	23	22	.	15,684	8,364	.	7,320
June, .	985	563	.	422	2	.	.	2	7,768	5,011	.	2,757
Total,	6,835	3,730	.	3,105	15	24	9	.	45,781	31,086	.	14,695

The entire number of emigrants (Irish) from Ireland, since May, 1851—the period when the Enumeration commenced—to the 30th June last, was 2,357,024, of whom 1,258,486 were males, and 1,098,538 were females.

## APPENDIX.

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### EXTIRPATION OF WEEDS.

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THE following extracts from the General Abstracts of Tillage and Live Stock for the years 1856 and 1857, submitted by me to the Lord Lieutenant [the late Earl of Carlisle, &c.] which contain much useful information from the writings of the celebrated Sir John Sinclair and other distinguished individuals, are reprinted in the hope that they may be of service to all those engaged in the cultivation of land, by directing more earnest attention to the subject, and *inducing a general determination to extirpate weeds from not only all tillage and grass lands, but also from the highways, sides of railways, canals, and waste lands of Ireland :—*

#### MEASURES TAKEN TO EFFECT THE DESTRUCTION OF WEEDS.

YOUR Excellency is aware that in connexion with the Agricultural Statistics, I have, for the last four years, had returns made to me by the Constabulary, showing the extent to which weeds are permitted to grow, and, in most cases, to *shed their seeds*, on the sides of highways, railways, and canals, as well as on the various farms of the country. I beg to take this opportunity of acquainting your Excellency how deeply sensible I am of the kind and considerate manner in which my request to the Judges to bring the subject before the various Grand Juries was received and acted upon by their Lordships, not only on the last Spring circuit, but more particularly during that lately concluded; and I am informed, by communications from almost every county, that the several Grand Juries have given directions to the County Surveyors to take all necessary steps to prevent the great injury to the farming classes which has hitherto arisen from the growth of weeds along the sides of public roads. I would here take the liberty of remarking that your Excellency's observations at the meeting of the Royal Dublin Society last April, and also at the late cattle show of the Royal Agricultural Society, at Athlone, as to the lamentable prevalence of weeds in Ireland, have had the happiest effect. In answer to

the circular which I took the liberty of addressing to the Directors of railways and canals, I have to acknowledge the receipt, in several instances, of very courteous replies; copies of these I have felt it to be my duty to forward for insertion in the public papers, feeling that the assistance of the Press, which has hitherto been most liberally afforded to me on all occasions, is of the greatest importance, by making generally known the vast injury and loss which arise from the unchecked growth of weeds on the farms and along the highways of the country. Every observer, and even the general traveller, must be struck with the neglect on this important matter, which, with few exceptions, exists in almost every part of Ireland.

I beg to mention that, having brought this subject before the Commissioners of National Education, and suggested to them the many advantages that must arise by instructing their teachers to direct the attention of the children in the numerous schools under their control to the importance of destroying weeds when found growing on their parents' farms, I have received a reply promising every assistance in the matter, and have furnished to Mr. Macdonnell, the Resident Commissioner, 1,000 copies of my circular to County Surveyors, to be distributed by the teachers then in training, on their return home; and I have learned that 6,000 of these circulars have since been procured by the Commissioners, for circulation amongst their schools. The Committee of the Church Education Society have also promised their valuable assistance with the pupils in their schools, and also the Poor Law Commissioners, through the medium of the masters and teachers in workhouses, by instructing the children in attendance as to the advantages which must arise to the community by the practice of destroying weeds. The Governors of Erasmus Smith's Schools have also promised their friendly aid.

The Masters in Chancery, upon all of whom I waited personally, have unanimously taken the subject into their consideration, and, I am informed, purpose recommending that an order should be issued requiring receivers over the estates under the Court to use their influence with the tenantry to keep their farms free from weeds.

The Commissioners of Public Works have also directed the removal of weeds from all works in progress under their control—such as those of arterial drainage, roads, &c.

The following extract from the works of that eminent man and real patriot, Sir John Sinclair, first President of 'The Board of Agriculture,' quoted in the 'Rural Cyclopædia,' will be read with interest, as exhibiting the immense loss arising from the neglect of removing weeds from growing crops, and is highly valuable, as being the record of actual experiment:—

Sir John  
Sinclair  
on the  
destruction  
of Weeds.

"All plants which grow naturally among a crop that has been sown may be regarded as *enemies* to that crop. The destruction of such plants, therefore, must be considered as one of the most important branches of the agricultural art; for if that is neglected, or even but



"slovenly performed, the crops may be reduced to the amount of one-fourth or one-third of a fair average crop, even upon the very best soils. Besides, it merits consideration, that if weeds are suffered to exist, the full advantages of manuring land, and many other improvements, can only be partially obtained. Nor is this all: the mixture of weeds in the soil prevents the crops from receiving the beneficial influence of the atmosphere,—sucks up that moisture so essential for the growth of the crop sown,—tends more than any other circumstance to injure the crop when lodged by violent winds or heavy rains,—augments the risks at harvest (for a crop that is clean may be ready for the stack-yard in much less time than is required to harvest it when incumbered with weeds),—and the seeds of these intruders deteriorate the quality of the grain. Notwithstanding all the injuries thence sustained, how many are there who hardly ever attempt to remove weeds in an effectual manner! This negligence is the more to be blamed, because, were farmers at the trouble of collecting all sorts of weeds before they had formed their seeds, and of mixing them with rich earth, with lime, or fermenting them with dung, they would soon be reduced into a soft pulpy mass, and in this way a pernicious nuisance might be converted into a valuable manure. Various experiments have been tried, to ascertain the positive advantage derived from carefully weeding one part of a field, and leaving another part undone; among these, the following, made with peculiar accuracy, may be safely relied on:—

Sir John Sinclair  
on the  
destruction  
of Weeds.

"1. Seven acres of light gravelly land were fallowed, and sown broadcast with wheat; one acre was measured off, and not a weed was pulled out of it; the other six were carefully weeded. The unweeded acre produced 18 bushels; the six weeded acres 135 bushels, or 22½ per acre, which is 4½ bushels, or ½ more produce in favour of weeding.—2. A six-acre field was sown with barley, in fine tilth, and well manured. The weeding, owing to a great abundance of charlock, cost 12s. per acre. The produce of an unweeded acre was only 13 bushels; of the weeded, 28. Difference in favour of weeding, 15 bushels per acre, besides the land being so much cleaner for succeeding crops.—3. Six acres sown with oats, one acre ploughed but once, and unmanured, produced only 17 bushels. Another six acres, ploughed three times, manured, and weeded, produced 37 bushels. This experiment proves, that oats require good management, and will pay for it as well as other crops. Ten bushels of the increased produce may be fairly attributed to the weeding, and the other ten to the manure.

"The importance of weeding, both to the individual and to the public, is such, that it ought to be enforced by law. At any rate, a regulation of police, for fining those who harbour weeds, the seeds of which may be blown into their neighbours' ground, can have no injustice in principle. In England, the petty constable might be required, by precept from the high constable, to give in presentments to the Quarter Sessions, containing a list of all persons who suffered weeds to run to seeds in their hedges or lands, such presentments to be particularly specified to the Court. Those referring to the coltsfoot, to be given in at the Lady-day sessions; and those referring to thistles, rag-weed, &c., to be given in at the Midsummer sessions. An order of Court might then be made for the immediate removal of such nuisances; and if not complied with, the offender should be fined a sum not exceeding five pounds, one-half to the informer, and the other half to go for the relief of the

Sir John  
Sinclair  
on the  
destruction  
of Weeds.

"poor. If, in consequence of such a system being enforced, *from four to five bushels of wheat, fifteen bushels of barley, and ten bushels of oats additional* were raised in all the fields in the kingdom, whose crops are injured by weeds, the benefit would be well worth the labour and expense, and the farmers would soon find that however anxious they may be to have their lands tithe-free, yet to have them weed-free is of still greater importance. On the whole, keeping his land in a clean state ought to be a principal object with every farmer; and if this be not carefully attended to, he may rest assured of paying dearly for his neglect. But the losses which he suffers do not remedy the injury which the public sustains from his slovenly conduct.

"In several countries the legislature has interposed its authority for the destruction of weeds. By a regulation in France, a farmer may sue his neighbour, who neglects to destroy the *thistles* upon his land at the proper seasons, or may employ people to do it at the other's expense. In Denmark, there is a law to oblige the farmers to root up the corn marigold, *Chrysanthemum segetum*. But the oldest regulation for that purpose was probably in Scotland; a statute of Alexander II., about the year 1220, having been directed against that weed, which was considered to be peculiarly pernicious to corn fields. The statute is very short, and ably expressed. *It denounces that man to be a traitor who poisons the king's lands with weeds, and introduces into them a host of enemies.*—Bondsmen who had this plant in their corn, were fined a *sheep for each stalk*. Under the authority of that law, Sir William Grierson, a Scottish baron, was accustomed to hold *Goel* courts, for the express purpose of fining the farmers in whose growing crops three heads or upwards of that weed were found. Such a plan, if generally adopted, would soon extirpate weeds; and as by a *clause introduced into many leases* (and which ought to be universal), the landlord is empowered to cut down these weeds, at the expense of the tenant, if the latter neglect to do it himself, it is much to be regretted that so useful a regulation should not be generally enforced. The policy of some legislative provision for this purpose has been frequently suggested. A clause enforcing the extirpation of weeds in hedges along the sides of roads, passed the House of Commons, but was thrown out by the Lords. It is to be hoped that so useful a measure, even on a more extensive scale, will soon be passed into a law. By some it is recommended that the destruction of weeds on the sides of roads should be done at the parish expense; others, by the road-surveyors, and the expense to be stated in their accounts.

"Though it is impracticable to extirpate annual weeds altogether, either by summer fallow or turnip culture, yet the number of weeds may be so much lessened, by these means, as to prevent them from materially injuring corn crops. Two measures are necessary for that purpose,—first, to bring the seeds within the limits of vegetation; and secondly, to destroy every weed that vegetates, thus regularly lessening the original stock. As the seeds of annual weeds are naturally furnished with the means of preservation while stored in the ground, it is absolutely necessary to bring them into life before their destruction can be effected. This is accomplished by the operations of ploughing, harrowing, and rolling, by which the ground is pulverized and reduced, whilst the seeds are brought to the surface, or so near it as to allow their speedy vegetation. All the seeds within two or three inches of the surface, may be expected to vegetate according to circumstances, such as richness of soil, fineness of mould, and the degree of moisture which may prevail when the above processes are executed. When the first crops of

“weeds appear above the surface, a second ploughing should be given, by which that crop will instantly be destroyed, and a foundation laid for producing another crop. Harrowing and rolling should again be resorted to; and in this way, several crops may be annihilated, in warm and moist seasons, before the turnips are drilled, more especially if attention has been paid to harrow and roll the land after every ploughing, so that sufficient moisture may be preserved to insure vegetation. When under turnips, both the hand and horse hoe should be constantly employed whenever weeds appear; and upon no account should a single one be allowed to run to seed. *By paying due attention to these measures, many farms which formerly were a nest of seed-weeds, are now brought into such order that the weeds are kept under subjection and easily managed.* In this way the destruction of many annual weeds may be accomplished, before the turnip-seed is sown, and the seeds of almost every annual weed locked up in the ground, may be brought to the surface, and within the reach of vegetation. Besides, the several horse and hand hoeings given to the turnip crop, serve to destroy every annual weed as fast as it appears; and if the seed-furrow given the corn crop which succeeds the turnips, is not taken deeper than the horse-hoeing furrow (and a greater depth is unnecessary), few weeds will appear in the corn crop which afterwards follows. As grass-seeds are always sown in the improved districts, with the corn crop that succeeds turnips, no annual weeds can appear in that season; but it very often happens in the succeeding year, from ploughing the clover-stubble a little deeper than the seed-furrow given to the crop which succeeded turnips, that a fresh growth of annual weeds make their appearance. To get the better of these enemies some experienced farmers have hand-weeded the crops which followed clover, at an expense not less than from ten to twenty shillings per acre, and evidently much to their advantage; whilst others have resorted to the drill husbandry to get quit of annual weeds. The great object of both was, to procure clean crops, each being perfectly satisfied that if their crops were full of weeds, the productive powers of the soil would not only be deteriorated, but that the amount or value of those crops would be also considerably lessened.

Sir John  
Sinclair  
on the  
destruction  
of Weeds.

“Owing to the nature of the soil and climate, many perennial weeds are much more abundant in Scotland, and also in Ireland, Wales, and the north and north-west of England, than in other countries, where the soil is drier, and the climate more temperate.

“With regard to docks and thistles, the method of getting rid of them is perfectly obvious; all that is required being to follow the ground well in the first instance, and to exterminate the plants afterwards whenever they appear. This may be accomplished by pulling them up by the root, in every corn field, when the weather is moist, and cutting them over in all the grass lands before they have perfected their seeds; though cutting should only be resorted to when the weather is so dry as to prevent pulling these weeds out of the ground. The same attention ought to be paid to the destruction of nettles, ragweeds, mugwort, and the mountain daisy. Every one of these weeds ought to be pulled up by the root, if that measure can be accomplished; but where that is impracticable, they ought to be regularly cut down by the scythe, in which way their increase will at least be prevented. This operation should always be performed before their seeds arrive at maturity, otherwise the ground may thence be stocked with fresh seed, to an extent not much less than if the cutting process had been neglected.”

Fecundity  
of Weeds.

The injurious effects of weeds are scarcely to be wondered at, when their extraordinary and almost incredible fecundity is taken into consideration. The following table (with the exception of the Irish names, for which I am indebted to Dr. O'Donovan and Mr. Eugene Curry, M.R.L.A.) is taken from Professor Buckman, as quoted in the *Gardener's Chronicle and Agricultural Gazette* on the 12th of July, 1856:—

*"Seeding of Weeds.*—One of the most fertile sources of the continuation of weeds is that of constantly allowing them to seed on the land. Now the enormous increase which may result from seeding may be gathered from the following table of observations made upon a few of our common species:—

Botanical Name.	Irish Name.	Common Name.	No. of Flowers.	No. of Seeds each Flower may bear.	No. of Seeds on a single Plant.
<i>Senecio vulgaris</i> .	Gronnag.	Gronniseel.	130	50	6,500
<i>Stellaria media</i> .	Fíolbh.	Chickweed.	50	10	500
<i>Agrostemma githago</i> .	Cogal-arbhair.	Corn cockle.	7	370	2,590
<i>Lychnis dista</i> .	Rós-faithne.	Campion.	25	137	3,425
<i>Papaver rhoeas</i> .	Callia dearg.	Red poppy.	100	500	50,000
<i>Sinapis arvensis</i> .	Carrao buíthe.	Charlock.	400	10	4,000
<i>Sigma</i> .	Sgeallán dubh.	Black mustard.	250	6	1,500
<i>Galium tricornis</i> .	Cóirleach leapa.	Corn bed-straw.	100	2	200
<i>" sparsa</i> .	Lalbh-an-dáilín.	Clivers (Cleavers).	550	2	1,100
<i>Senecio jacobina</i> .	Pethanas.	Corn sow-thistle.	100	100	10,000
<i>Carduus nutans</i> .	Pethanas.	Black thistle.	25	150	3,750
<i>Achillea cynapium</i> .	Vioanna.	Foot's parsley.	500	2	1,000
<i>Erum tetraspermum</i> .	Bailéith.	Taro.	60	3	180
<i>Daucus carota</i> .	Carraí Fíolbh.	Wild carrot.	500	2	1,000
<i>Prastina saliva</i> .	Méamfíolbh.	Wild parsnip.	500	2	1,000

"Now, it is not likely that each individual plant would always perfect the quantities of seeds above tabulated; but the list gives a pretty accurate notion of the numbers of seeds which might be perfected under circumstances favourable to their development, and from it will at once be gathered the important practical fact that, allowing for the casualties to which seeds are constantly liable, yet enough would be left, where seeding is allowed but for a single year, to give trouble for many years after.

"It cannot be too earnestly urged THAT WEEDS BE DESTROYED BEFORE THEIR SEEDS ARE RIPP, OR INDEED NEARLY RIPP, as the ripening process is often completed by the juices in the stems, especially of pulled weeds: hence groundsel and thistles, when pulled and laid by, as we saw last year, yet ripened much seed; and their involucre, opening in the sun, were wafted on the breeze to an indefinite distance; and it should be recollected that one—the primary head—may ripen long before the rest, so that a tolerable weed-growth may follow from a delay which has allowed only this one head to perfect its seed. Each plant of groundsel might in this way be increased 50 fold, each plant of corn sow-thistle 100 fold, and a single head of wash-thistle may produce an increase of 150 fold."

And in the number of the same useful periodical for November 18, 1854, another list of weeds is given, from which the following are selected:—

Botanical Name.	Irish Name.	Common Name.	Number of Seed vessels or Flowers in each Plant.	Number of Seeds to each Vessel or Flower.	Number of Seeds in each Plant.	When gathered in 1854.
<i>Cappella bursa pastoris</i> .	Sroidin.	Shepherd's purse.	150	20	4,500	Sept. 9
<i>Sisymbrium officinale</i> .	Lus-an-oir.	Common hedge mustard.	450	19	5,400	Oct. 13
<i>Hieracium sphondylium</i> .	Govan (or Ge- rausch).	Cow parsnip.	2,500	2	5,000	Aug. 17
<i>Convolvulus arvensis</i> .		Corn bind weed.	200	3	600	Sept. 20
<i>Galeopsis luteum</i> .	Nearnag.	Habit nettle.	500	4	2,000	
<i>Barbida odorata</i> .		Red barbit.	400	12	4,800	Oct. 1
<i>Leontodon taraxacum</i> .	Caisteachan.	Dandelion.	12	170	2,040	
<i>Centaurea jacobea</i> .	Gob-an-Ghineain.	Hardhead scabiosa.	50	80	4,000	Sept. 10
" nigra.		Blackhead.	50	60	3,000	
<i>Anthemis arvensis</i> .	Breen-lus.	Stinking chamomile.	271	150	40,650	Sept. 23
<i>Matricaria chamomilla</i> .	Meldhor.	Mayweed.	150	300	45,000	Oct. 14
<i>Chrysanthemum leucan- themum</i> .	Faeng-han.	Ox-eye daisy.	45	300	13,500	Sept. 18
<i>Achillea leppa</i> .	Copag toothall.	Burdock.	612	40	24,480	Oct. 1
<i>Sonchus oleraceus</i> .	Bleacht Finetha- dan.	Saw thistle.	100	230	23,000	Sept. 6
<i>Carduus arvensis</i> .		Stemless thistle.	6	100	600	Sept. 8
<i>Papaver dubium</i> .			100	600	60,000	Oct. 14
<i>Humex elatissimus</i> .	Copag aralis.	Common dock.	13,000		13,000	Sept. 15
<i>Euphorbia exigua</i> .		Dwarf spurge.	500	3	1,500	Sept. 19
" perfoliata.	Gahneish.	Petty spurge.	400	3	1,200	Sept. 11
" helioscopia.		Spin spurge.	324	3	972	Oct. 14
<i>Lapsana communis</i> .	Dullag blights.	Nipple wort.	500	15	3,400	Sept. 23

Annexed are the names of some of the most noxious weeds, with compound flowers, which I have been informed by Doctor Mackay, author of the 'Flora Hibernica,' grow wild in Ireland, and all of which produce seeds in the greatest quantity:—

## COMMON NAMES.

## BOTANICAL NAMES.

- |                              |                                     |
|------------------------------|-------------------------------------|
| 1. Spear plume thistle.      | <i>Oniscus lanceolatus</i> .        |
| 2. Marsh plume thistle.      | <i>Oniscus palustris</i> .          |
| 3. Creeping plume thistle.   | <i>Oniscus arvensis</i> .           |
| 4. Welled thistle.           | <i>Carduus acanthoides</i> .        |
| 5. Slender-flowered thistle. | <i>Carduus tenuiflorus</i> .        |
| 6. Dandelion.                | <i>Leontodon taraxacum</i> .        |
| 7. Ox-eye daisy.             | <i>Chrysanthemum leucanthemum</i> . |
| 8. Corn marigold.            | <i>Chrysanthemum segetum</i> .      |
| 9. Rough hawkbit.            | <i>Apargia hirsuta</i> .            |
| 10. Autumnal hawkbit.        | <i>Apargia autumnalis</i> .         |

Of so much importance has the eradication of weeds been considered in the Colony of Victoria, that an Act has been recently passed to insure their destruction; the owner or occupier of the land on which they grow may be ordered by a Justice of the Peace to destroy them, and is liable to a fine if he does not comply—a course which, if followed in this country, would be

gratefully received by the farming classes, and be productive of great national benefit, as, according to the experiments of Sir John Sinclair, already referred to, the land, WHEN KEPT FREE FROM WEEDS, WILL YIELD A MUCH GREATER AMOUNT OF PRODUCE.

It will be gratifying to your Excellency to learn that I have received from very many influential parties, to whom I am personally unknown, communications expressive of their entire approval of what has been termed by some of them the 'National Crusade against Weeds.' I also learn, from copies of almost every journal in Ireland, kindly sent to me by the editors, that the Press has, without exception, given its powerful aid to the same object—one which most happily has received your Excellency's marked approbation. And I confidently trust, from the opinions so unequivocally expressed in every quarter, that much and permanent good will be effected by bringing the present great neglect on this subject prominently under public observation.

In the observations on the Agricultural Abstracts for last year [1856] I had the honour of stating the measures taken by me to call public attention to the great injury and loss caused by the non-removal of weeds from farms and the sides of high roads, railways, and canals. I am now informed, that in some localities improvement has taken place; but on account of the unchecked growth of weeds in so many places, as well as in the fields and hedge-rows of the slovenly and careless farmer, the efforts of those desirous to effect their eradication are, in a great measure, frustrated. To the extensive circulation of the information given in the Abstracts for 1856, as authorized by your Excellency, and to the able appeals on the subject which have appeared in the public press, this improvement may be attributed; until legislation, however, affords some remedy to those who keep their lands free from weeds against such parties as allow them to grow and seed, to the injury of the adjoining lands, the practice of clean agriculture in Ireland cannot, I fear, be hoped for; because, if a farmer sees that the expense which he incurs in removing weeds is thrown away, owing to his careless neighbour poisoning the fields around with the seeds of noxious plants, he will naturally feel that it is hopeless to eradicate them, as they are replaced by the vigorous stock growing on his neighbour's holding. With a view to keep this subject before the agricultural community, I, last spring, issued a circular to the several Assistant Barristers, soliciting their aid. It was most courteously received, many of them having addressed the parties attending Quarter Sessions, on the great advantages which must arise, owing to the increased yield of land when kept free from weeds, as is clearly shown by the experiments of that eminent and distinguished man, the late Sir John Sinclair. [See page 25.]

So important has this subject become, that for an essay upon it a prize was awarded by the Royal Agricultural Society of England last year;—the successful author, Professor Buckman, of the Royal Agricultural College, Cirencester, gives the following practical methods for removing weeds from the soil:—

*"On the Extirpation of Weeds.*—The extirpation of weeds would appear in theory a much easier matter than in practice it is found to be, for the seeds of wild plants constituting weeds are so universally distributed, that, though they may differ in kind at different places, yet, wherever a crop will grow, there also will weeds flourish, if allowed. There would also appear to be species of weeds peculiar to certain crops, species which appear in one crop and not in another; the charlock is a familiar example of this, as it will often make its appearance in great quantities after the breaking up of pasture or old sainfoin lea, where it had not been observed before for years. Evidence of this may also be obtained from the vast quantities of wild plants which spring up in woods after trees and underwood have been removed; so quickly and so abundantly, indeed, as to convince us that their seeds must have lain dormant, only awaiting the required circumstances to vegetate. Newly-formed earthworks frequently cause the sudden growth of wild plants, which have never before been observed in the district. Hence, however careful we may be to destroy weeds in one crop, we shall assuredly have some fresh species with the next, as well as fresh plants of the same, in consequence of dormant seeds having been brought within the power of growth by newly stirring the soil; from which it is obvious that weeds are not to be eradicated by one effort, however vigorous it may be.

"The getting rid of weeds would appear to resolve itself into the two following heads:—

"1st. *Destroying those already in the soil.*

"2nd. *Preventing others being sown.*

"The first of these must be considered with reference to those weeds which are already rooted in the soil, that is, weeds of a perennial character, as well as those annual weeds the seeds of which have been scattered at different periods.

"Perennial and deep-rooted weeds can only be got rid of by properly preparing the fallows, to which end farm-work should always be got as forward as possible. One of the most common causes of the continuance of weeds is, that work is delayed until it is time to get in the seed for the crop, when untoward weather, want of time, or some other cause, prevents the possibility of that thorough cleaning which is necessary to get rid of weeds. *Seed is thus put into foul land, which must wait until a more convenient season for being cleaned.*

"In the usual process of arable farming, preparation of the soil by ploughing, scuffling, harrowing, and exposure to sunshine and drought, cleans the land of a great quantity of weeds; but if we observe the depth to which the underground stems of couch, coltsfoot, bindweed, and such-like plants penetrate, we shall see at once that this is not sufficient to exterminate the enemy; but, having done this in the most careful manner, we may observe that there are still spots left here and there in a field where these weeds flourish. Now, it appears to me that the best method of dealing with a case like this, is to go carefully over the ground after the crop is removed, and dig up the weed-patches with a three-pronged fork. With this implement they can be followed in their direction and depth; and thus, by a simple employment of day-labour, these isolated nurseries of mischief may, if not too numerous, be readily, perfectly, and cheaply broken up. Indeed there is no mode so efficient as this; and, from long observation of the natural history of weeds of this kind in arable fields, I am convinced that more may be done by the fork towards the complete eradication of deep-rooted weeds than by any other means.

"There are some of these deep-rooted weeds which are exceedingly

"troublesome in pastures, such as the stinging-nettle, butter-bur, and bistort. These occur in patches, some in the corners of the field, others in wet places, while the bistort will be found occupying isolated spots in the centres of meadows. These cannot well be attacked by digging them up. The best plan of treating them is to regularly mow them down, when their stems grow a few inches above the surface of the ground. The principle upon which this is recommended is, that the leaves are absolutely necessary to the extension of the whole of the parts of a plant; if, therefore, these are continued to be destroyed in proper time, the extinction of the underground stems is ultimately insured; it will not do, however, to leave them until the usual period of mowing, as at that time the plants will have advanced to maturity, and the leaf function have been fully performed. An observance of this law will be of great use in destroying many weeds, in situations where the roots cannot be got at; let it simply be borne in mind, *as the leaves are the lungs of the plant, never in such cases to allow the lungs to develop themselves.*

"*The prevention of Weeds-sowing.*—Weeds are constantly being sown under many circumstances, the chief of which may be stated as follows:—

"Weeds are sown with the seed for the crop.

"Weeds are spread over the land by manures.

"Weeds are perpetuated by being allowed to seed.

"Weeds are disseminated from rough-sides, and waste land, or from a badly managed farm to a good one, chiefly by 'flying seeds.'

"*Sowing of Seeds.*—That weeds are perpetuated notwithstanding the most careful preparation of the land, by sowing them with our seeds, is a fact too well known to be disputed. Six years ago we saw a field sown with foreign flax-seed, which came up full of black mustard,—*Sinapis nigra*, much to the injury of the crop: this has ever since been a troublesome weed in the field, and has even been the means of disseminating it over a great portion of a farm on which it was previously almost unknown. Again, many weeds are sown with clover seeds, sainfoin, and the like, which, though they may not make way during the covering of the ground with the crop, may yet appear in some future crop. From this it follows, that too much care cannot be taken to get clean seed, and it wants but little botanical skill to detect the presence of weeds in a sample. Pure or clean seed is even worth paying a greater price for, as the reverse may entail trouble and expense for years. Any mechanical processes, therefore, which can be made available for cleaning seed are well worthy of patronage. A seedsmen who will be careful in the preparation and collection of seed deserves the best support. In order also to assist in this matter, farmers should be particular not to allow a dirty patch to stand for seed, although it may be 'the most profitable thing they could do with it.'

"*Weeds and Manure.*—It is too much the custom to consider that the power of germination of seeds is destroyed by decomposition in manure heaps. That some are so, when the manure has been thoroughly decomposed, there can be no doubt; but many are not, and with those that are the process is too uncertain to be relied upon. We have seen quantities of pulled docks and of crow-garlic thrown upon a heap to decay, and afterwards noticed vetches manured therewith to be full of those troublesome weeds. Neglected manure-heaps are often covered with a profuse vegetation, which thereon produces enough weed-seeds to stock a farm. In these cases the plants rendering the original seed were, doubtless, mixed with the straw of which the manure was made, and yet, notwithstanding the vicissitudes they had to contend with, were not



"destroyed. Too much care, therefore, cannot be taken to prevent this source of mischief, to which end it will always be found best to burn pulled weeds; and in harvesting corn, docks, thistles, and the like, should not be bound up with the sheaves, but, if practicable, left standing, and afterwards destroyed.

"Weeding should be done as early as possible, either with the horse-hoe, common hoe, or sometimes the Dutch hoe, and, when thus early cut down, may safely be left to wither on the ground; but it should be borne in mind that if any individual plants amongst them are shedding their seed at the time, and are not taken away, the very hoeing insures its safe plantation.

"It is precisely in this way that coltsfoot is often much increased. The flowers of this plant appear in spring before the leaves. By the time the seed is ripe the leaves become conspicuous; the hoe is then set to work to cut down the latter, by which the ripened seeds are sown, when, if left, they might have flown away to a distance. Now, it may be that the roots of the coltsfoot—for it is not destroyed by the hoe—are forked out after the crop has been gathered; but the sown seeds will insure that the pest shall give us some more work to do at a future time. The patches of coltsfoot flowers should, therefore, be cut down as soon as they appear, and by this means we not only spoil the crop of seeds, but cripple the growth of the plant by cutting off the leaf-buds. Many other instances of a like kind might be adduced tending to show that a knowledge of the natural history of weeds is of great importance in enabling us to subdue them.

"Dissemination of Weeds from Wastes.—This is a matter that requires serious consideration, and, having once obtained correct views upon the subject, should incite to prompt and energetic action. It is well known that some of the most pernicious weeds are to be found amongst the Compositæ, a natural order of plants to which the *Sonchus*, *Leontodon*, *Carduus*, *Thlasia*, *Senecio*, and *Centaurea* belong. Now, in all these plants we may observe that their seeds are crowned with a feathery down—the *Pappus* of botanists—which acts as a tiny parachute, enabling such seeds to be wafted here and there by the slightest breeze, and thus they float for miles. It, therefore, follows that however particular we may be in trying to subdue them in our cultivated fields, yet waste places and waysides, where many species like to dwell, if not attended to will ever afford a nursery for many of the most objectionable weeds. Waste places, therefore, on every farm—if there be such—cannot too carefully be looked to in this matter; and, if the principle be fully recognised, the keeping roads in order, especially in rural districts, will comprehend weeding the waysides. We once saw a farmer employ men, in a not over busy time, in mowing thistles on a good breadth of road running through the middle of his farm, but, unfortunately, the seed was ripe when this was done, and, as the thistles were left where they fell, the dissemination of their seeds was not prevented. This, therefore, is a matter which seems to belong to the overseer of the road, and the plea of idle time should never be recognised.

"But, unfortunately, it is not always that these evils emanate from mere waste places and roadsides. One lad and dirty farmer may preserve weeds enough to continue a supply to a wide range of neighbours; in which case it would not seem unreasonable to call upon him to render compensation for damages.

"The weeds of hedge-banks and fences are innumerable: many wild

"flowers, not in our list, by growing in such situations, are weeds. Couch, cleavers, bindweed, and bryony are among the most troublesome, especially when they occur in young quicks. To insure the growth of the fence these must be removed, and, indeed, should never be suffered to make head. This can be done with a small fork, handled with judgment, so as not to disturb the roots of the hedge. By this means we may not only remove the weeds, but the operation contributes to the fertility of the soil, and thus the hedge more quickly overtops what, but for this attention, would completely smother it. In this case, as in most others, it is safer to burn what we remove than to remove it to the dunghill or to let it lie about. We knew a farmer who offered his cottagers 3d. the bushel for weed ashes; and as a description of the manner in which a cottage family proceeded to make them may be useful and interesting, it is here given:—The refuse of the garden was first put together in a heap, and covered with turf from the roadside; this, on being fired, burnt in a smothered manner; the children brought all the weeds and refuse they could collect from time to time, and added it green to the rest, and, by the occasional addition of turfs, a continued smothered fire was kept up for weeks; in one cottage garden was as much as fifty bushels, and the process still going on. With these ashes the farmer always did well in his turnip crop, so that not only was an exterminating warfare carried on with our enemies, but they were destined ultimately to be converted into food; and we cannot better conclude this essay than by saying—Always destroy the life and reproductive power of weeds, even by fire, if necessary."

And on this subject, one of our most observant and popular authors, the late Mr. Charles Dickens, in a number of that useful periodical, 'Household Words,' after gracefully alluding to the exertions for the eradication of weeds, which were being made in Ireland, remarks:—

"Inasmuch, as Nature is resolved to spread her carpet where she can, and man knows very well that the green carpet with its pretty little flower patterns, must be taken up wherever the ground is to be tilled for special uses of his own, the need of constant watchfulness is obvious enough. To say that over a given space there shall grow nothing but wheat, if we mean earnestly what we are saying, is to declare war against all other growths which set up their own claims to the same land. It is a case of war arising out of territorial aggression. The farmers seize upon a territory occupied by various races of plants known to them by the rough general name of The Weeds. The weeds are got under, subdued, in a great measure extirpated, and the farmers then set up an iron rule over the soil, upon which they establish in rich colonies their own subjects, the cereals and green crops. The farmers justify their first aggression. The well-being of mankind depends, they say, on the predominance of the two races of cereals and green crops. What do the weeds care for this reasoning? The race of man has always trampled on them. They are the first owners of the soil. They claim it. They watch, therefore, the opportunity to rise, and every great rising of the weeds is attended with a frightful massacre of the new race. There is no mercy shown even to the newly born, whether of the green crops or the cereals. Thousands upon thousands of them are without pity smothered by the weeds, while others perish in their prime.

"Let us observe the common case of a fortified town in possession of

"a cereal colony, such as we may take a wheat field to be, walled with its hedges, moated with its ditches, and having its one or two great gates kept carefully closed. Not only is it frequently in England, and almost invariably in Ireland, plagued by the insubordination of the weeds allowed to live within its bounds, and to lie there at the root of general society; but it is, every summer, regularly besieged by ragged regiments. There are the chickweeds, the hawkbits, the thistles, with their white plumes waving and their lances shouldered, the poppies, reddest of republicans, the black mustards, whose family, perhaps, has caused more tears to be shed than any race, except that of the onions. There are the nettles with their poisoned barbs, the dandelions each with fire upon his head. These storm the field, master the outworks, and do not a little mischief to the regiments that lift their shining spears within.

"It would appear that we are within the truth in saying that, where the weeds are not kept under, there is a loss incurred of one-fourth of the crop. The weeds rob the growth with which they are mixed of some part of the food which the ground holds for the use of plants; they clog the ground mechanically; they keep air and light from the young seed; they injure the crop seriously when there is high wind or heavy rain; they delay the processes of harvesting and stacking; and, by so doing, increase the farmer's risk; while the grain that has ripened under all these disadvantages, goes to the stack worse corn than it would have been had it been grown unaccompanied by weeds.

"The suppression of weeds has been considered in France a duty not unworthy of being enforced by law. A French farmer may sue his neighbour who neglects to destroy the thistles upon his land at the proper season, or he may employ people to do it at his neighbour's cost. In Denmark, there is a law to oblige farmers to root up the corn-marigold. The oldest regulation against the corn-marigold was, probably, that in a Statute of Alexander the Second of Scotland; which, in or about the year 1220, denounced that man to be a traitor who poisons the King's lands with weeds and introduces into them a host of enemies. Bondsmen who had this plant in their corn were fined a sheep for each stalk, and a Scottish baron held what were called Goul Courts, for the purpose of fining farmers in whose growing crops three or more heads of corn-marigold could be detected.

"In modern times a clause of a Bill which enforced the extirpation of weeds in hedges and along roadsides, passed our English House of Commons, but was thrown out by the Lords. Yet it is possible that great advantage might result from one or two legal provisions of this kind. The loss by weeds in England is not very great; in Ireland the fields are overrun with them."

At the meeting of the Royal Agricultural Improvement Society, at Waterford, the following earnest and emphatic observations, which cannot fail to have a most beneficial effect, were addressed by His Excellency to a large and influential assemblage of landed proprietors and agriculturists:—

"I know that the total extinction of weeds must be a work of time, and of gradual and continued effort, like all other great works;—but Delhi has not yet fallen—and Irish weeds are not yet extirpated; and I believe the one to be as essential to the real regeneration of Irish Agriculture, as the other is to the martial glory and stability of the Empire."

The following Circular was addressed to the Magistracy, the Clergy of all Denominations, and other influential parties in Ireland, when sending them the Abstracts of Tillage and Live Stock. It was most favourably received, and I now reprint it:—

Agricultural Statistics Office,  
5, Henrietta-street, Dublin,  
October 20, 1856.

SIR,

In forwarding to you the accompanying abstracts and observations on the extent of Tillage and Number of Live Stock in Ireland, in 1855 and 1856—which I trust you will find interesting—I would earnestly solicit your attention to my remarks in reference to the extraordinary, and almost incredible growth of Weeds which is permitted along the sides of Public Roads, Railways, and Canals, as well as on the farms of Ireland. I say almost incredible, for it would be quite so, did not our every-day experience of their condition in this respect, convince us of the fact:—so important, indeed, has the subject become, that it has called forth the marked observations of His Excellency the Lord Lieutenant, at the late Cattle Show of the Royal Agricultural Society at Athlone, as well as on former occasions; also of Her Majesty's learned Judges of Assize, and of the Grand Juries of almost every county in Ireland, during the late circuits. It may be truly said that a great social evil has imperceptibly grown up amongst us, until at length the attention of a large portion of the community has been turned towards it, with the view of finding a proper and permanent remedy: this happily, is within our reach; for, if the landed proprietors, the resident gentry, and the clergy of all denominations, aided by the intelligent and improving Tenant Farmers of the country—who are themselves the greatest sufferers from the present lamentable apathy and neglect—will only act upon the advice of His Excellency, and of Her Majesty's learned Judges, I feel I am not too sanguine in expressing my conviction that, in a few years, a most propitious change will have taken place, and the surface of this beautiful Island—now covered in so many places by large masses of thistles, rag-weed, and of yellow, scarlet, and other noxious weeds, which are permitted to grow and thrive, and scatter their baneful seeds far and wide—would then become what Providence designed her, and we now vainly boast her to be—the “Emerald Isle.”

The extracts which I have given in the accompanying Report from the writings of that true patriot, Sir John Sinclair, clearly prove the great pecuniary loss arising from neglect in weeding cereal crops. There is, however, another reason for weeding them, quite distinct from the important national question of the loss in yield,—which must attract the notice of every person who is not already familiar with it. I allude to the acute pain caused to the laborious reapers of our harvests, when grasping the corn in the act of reaping, by which, if the crop abounds with thistles and other prickly weeds, as is too frequently the case, the hands of the reapers are severely wounded. I have myself made inquiry from several parties of reapers from various counties, and from all of them I learned, that they would much sooner cut down and bind an acre of corn free from thistles and other weeds for four or five shillings less than they would a “dirty” crop—the reason invariably given being the additional time occupied in cutting down the latter, and the injury done to their hands by grasping the prickly weeds when reaping;—to use their

own expressive words, "their hands were often so festered and destroyed by thistles, that they had to give up their work."

I would beg, therefore, to observe, that *Self Interest*,—by obtaining an increased yield (as clearly shown in the writings of Sir John Sinclair, from which I have quoted); *Economy*,—even on small farms—as the children of the farmers might, in the spring season of the year, when the weeds are tender, assist in cleaning the crops, and thus aid in economizing the additional four or five shillings an acre, which, as I have stated, are paid for reaping "*dirty crops*;" but not least of all, *Sympathy for the poor reaper and binder* of our harvests, will, I most respectfully venture to hope, insure the co-operation of all classes, and the continued aid of the public press, in the attempt now being made to draw attention to the importance of destroying weeds in Ireland.

My observations have been hitherto confined to the great loss and injury caused by neglect in weeding *cereal* crops; but it must be evident to every one that an equal, if not greater, amount of damage arises in many counties from the *shedding of the thousand seeds* of thistles and other noxious plants, which is but too generally permitted on the *grazing farms* of the country. I feel I am warranted in stating that the owners or occupiers of these grass lands are usually indifferent on the subject, and object to the expense of destroying weeds, asserting that they do *themselves* no injury. Although these parties may not be sensible of their loss, yet it cannot be denied that *THEIR NEIGHBOURS*, the unhappy tillage farmers, for miles around, suffer from the seeming neglect of the opulent grazier. Does not this state of things require a remedy? Why, I would beg to ask, should not Ireland rival England and Scotland in the care of her crops?—or why should she be behind that best of agricultural models—Belgium? Happily this is *not a political or party question*, but one in which all may cordially unite for the benefit of our common country; and therefore it is that I respectfully ask for your influence and friendly co-operation to aid in eradicating weeds from the farms of Ireland. To those who feel an interest in the progress of the country, it will, no doubt, be gratifying to learn that instruction as to the importance of *destroying Weeds* will in future form part of the educational course in the National schools, as well as in those in connexion with the Church Education Society and other influential bodies; from which it is to be hoped much benefit may arise to the farming classes of the country.

I take this opportunity of stating how deeply sensible I am of the kind and valuable assistance afforded to me, during the last six years, by the magistracy and clergy of all denominations, and by the public press of Ireland, in reference to the collection of these statistics. It also affords me the greatest satisfaction to express my obligations to my intelligent fellow-countrymen, the Tenant Farmers of Ireland, for their generous confidence, and the readiness with which they have given to the Enumerators the required information respecting their Stock and Tillage—an honourable example, well worthy of imitation by the farming classes in England.

I trust the importance of the subject to which I have now taken the liberty of calling your attention, will plead my excuse for troubling you at such length.

I am, Sir, your faithful servant,

WILLIAM DONNELLY, *Registrar-General*.

To ———

The following extracts on the subject of the almost incredible growth of weeds which prevails in Ireland, are taken from the "Leisure Hour" for the months of May and June, 1873:—

### IRISH AGRICULTURE.

"Every traveller must be astonished at the neglect and waste of natural resources. Even in the pasture lands, in which Ireland most excels, the spontaneous liberality of the soil seems to induce the greater indolence and carelessness. The aid of art has been little used in laying down land to grass, for it is only recently that the trade in grass seeds has assumed any dimensions. Hay-making, as generally conducted, is a slovenly operation, though labour has been so abundant. Cut too late, I saw the grass often left in small cocks, to be drenched by the autumn rains. A good sweet hay-stack is the exception, not the rule, on an Irish farm. I never saw such a country for weeds. I saw two men in a field with scythes mowing down ragwort. Had I been travelling afoot or in a car, and not in a railway carriage, I would have sought an explanation of so strange a sight. Had the ragwort been sown as a crop, it could hardly have been closer, so as actually to be mown with scythes. Is it used as fodder for any Irish animal? I suspect it was only an extreme illustration of the miserable state of the agriculture too common in Ireland. The amount of weeds is a national disgrace. It is not uncommon to see a ton of weeds in a dozen tons of hay. Many a field has more weeds than a whole parish in England. Small tenants keep land without laying it down with grass seeds, and it becomes the receptacle for all the floating weeds of the district, and then spreads them far and wide. Even for green crops the land is seldom sufficiently cleaned. Smoking heaps of twitch and weeds are rarely seen. If the farmer would give a small reward to boys for heaps of weeds, as they used to do for heads of vermin, they could keep this nuisance under. Ragwort, for instance, can easily be pulled up by the roots in wet weather, and the boys from the workhouse school would gladly attack a field for a trifling reward, and enjoy the fun of the bonfire that the heaps would make. But fields and road-sides are alike neglected, and weeds help to keep Ireland green but poor. *I am sure it is no exaggeration to say that the direct loss to Ireland from weeds is above a million and a half sterling. I have heard the loss estimated at nearly double that amount.* On the drainage of land vast sums have been expended, and under good management with wonderful results. But even in land that has been drained there is too general carelessness in scouring ditches and keeping the outlets of drains clear. It is better to have no drains than drains choked. In this matter, as in the curse of weeds, the careless, indolent habits of the people make agricultural progress up-hill work. Bad fences are also everywhere evident. The direct losses from the destruction of produce through this cause are enormous, and it is a constant source of litigation and ill-will. Want of industry and want of sense account for all the backwardness of Irish husbandry."—*Ireland in 1872: a Tour of Observation. By Dr. Macaulay, Editor of the "Leisure Hour."* (H. S. King & Co.)

The following remarks on the subject of weeds in Ireland are extracted from the *Freeman's Journal*.—

29th September, 1873.

"We think Mr. Donnelly has done good service in republishing, as an Appendix to his Agricultural Statistics, a collection of opinions on the poverty caused by the universal flourishing of weeds throughout this country. It is impossible to deny the accuracy of the statement that, so far as weeds are concerned, Ireland is the wealthiest country in the world. If we walk by a rural river, we see the bed covered with weeds taller than a man. If we look at those useless and wasteful ditches which divide one farm from another, the glaring yellow of the blooming weed meets the eye everywhere. If we glance at the slopes which run along a line of railway, we can see the noxious weed in full vigour. Fine crops are smothered by the myriad seeds which are borne along on every wind. The good farmer is worried and deprived of the just fruits of his skill and labour by the mere fact of bad neighbourhood. The evil is almost universal. Every visitor to the country notices it, wonders at it, complains of it. Every book of observation taunts us with our slovenliness in this inexcusable matter; we dare not deny the fact, and we do nothing to remove the blot. Mr. Donnelly quotes Sir John Sinclair, Lord Carlisle, Charles Dickens, Dr. Macanley, and the *Freeman's Journal*, in support of his 'CRUSADE AGAINST WEEDS.' For our part we trust his efforts, which in this direction have been unceasing, will have proper influence in enlisting the landlord, the county surveyor, the police and the people in a compact force which shall have for purpose the extirpation of this scandalous repressel."

8th July, 1874.

"Now, that the Grand Juries of Ireland are being assembled for the despatch of their important public duties, it is not an inopportune time to call the attention of those influential bodies to a matter which, though frequently brought before them already, has not hitherto received that serious and practical consideration to which it is entitled. We refer to the prevailing negligence which still allows a vast growth of weeds to deface the agriculture of the country, and to mar in a degree much larger than is popularly known the results of the cultivation of the soil of Ireland. The returns of our capable and careful Registrar-General, Mr. Donnelly, furnish some very striking figures on this head. In this gentleman's annual report we are able to trace the consequences of a defect of system which has been long the blot of Irish farming. It is evident to any person of observant habits who may chance to pass through three-fourths of the island that the farming of the land is to a great extent slovenly and wasteful. Not only are weeds allowed to flourish rankly in the ditches, the divisions of fields, in furrows and between drills, but they are all too often permitted to grow with the crop, stifling it with their luxuriance, and absorbing its nourishment from the soil, till, when at last an effort is made to remove them, the growing plants show starved, sickly, and discoloured. We do not want to exaggerate. There is a good deal of good farming in this country—the spirit of enlightenment has spread and is spreading—but there is more backwardness than there ought to be, above all in the indifference with respect to the worst enemy of legitimate vegetation—the weed. Nothing is more common than a young cornfield the natural green of which is converted into flaming

"yellow by the preponderance of foreign growths. Potato patches are  
 "found equally dirty. A particular fault, arising from a most hurtful  
 "misapprehension is the custom of leaving the weeds to remain till they  
 "have grown thick enough and large enough to make it a chance that  
 "the one weeding may clear the field. But before they have reached  
 "this stage, permitted them by a custom highly characteristic of the  
 "rude, happy-go-lucky methods of old farming, they inflict the most  
 "serious injury on the crop. There is another grave blemish on our  
 "agriculture. The gigantic ditches, the vast dykes and cuttings, the  
 "wide roadside traverses, which abound in Ireland are found nowhere  
 "else. But, besides the waste of surface caused by these, there is a more  
 "deliberate loss in the 'headlands,' which are left to lie untilled at the  
 "ends of the sown or planted ground. The whole subject has been so  
 "often discussed that it may seem a wearisome iteration to refer to it  
 "now; but we are induced to do so by the fact that we have recently  
 "received letters from tourists and visitors to Ireland which we are  
 "absolutely ashamed to publish, so strong are they in comment upon  
 "our want of thrift, neatness, and cleanliness in our farming. One  
 "correspondent, who is not, by the way, a stranger, is of opinion  
 "that much of the remedy lies with the Grand Jurors, or those who  
 "compose them. These gentlemen may be taken as enjoying a large  
 "amount of influence in the localities they represent. It is in their  
 "power to impress upon those in their employment, as well as upon their  
 "tenantry, the lesson of clean farming and full cultivation of as much  
 "of the ground in their occupation as they can put a plough-socket or a  
 "spade in. The law calls upon road contractors to remove weeds from  
 "the roadway, and this they ought to be careful to do. They might set  
 "a good example also upon their own farms. Another correspondent  
 "suggests, with a great deal of sound reason, that our public bodies,  
 "such as railway companies, who hold a large extent of land in their  
 "possession, might help to spread proper ideas upon this most impor-  
 "tant subject. As it is, the amateur horticulture and agriculture of the  
 "railway companies exhibit a disgraceable anomaly. Attached to some  
 "wayside station, the platforms and buildings of which are beautiful  
 "with wealth of well-tended roses, there may be found a plot of corn or  
 "potatoes, or vegetables, a very eye-sore for weeds and dirt. As a  
 "matter of fact, the loss caused by weeds and waste is immense. English  
 "periodicals have described the weeds in Ireland as 'a national disgrace.'  
 "Mr. Donnelly's reports substantiate the reproach. This is an evil,  
 "and a real one, and we think that the Registrar-General deserves the  
 "most emphatic acknowledgments for his incessant, unwearied, and  
 "zealous efforts to end what is not only the greatest blot on Irish agri-  
 "culture, but the greatest impediment to its development and prosperity.  
 "He has recommended that children at school be instructed in the  
 "necessity of destroying weed. This is an excellent advice, and ought  
 "to be made a specialty of the National School teaching. When it is known  
 "that the loss to Ireland annually from weeds alone is estimated at from  
 "one and a half to three millions sterling, our readers will own that the  
 "commendable action of the Registrar-General ought to be earnestly and  
 "energetically seconded by all who have at heart the interests of the  
 "nation."